

DATE: 10/28/2009

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00095921
SOLICITATION #B2009000266

JEFFERSON PARISH
PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

VENDOR:

BUYER: S. Vasquez

BIDS WILL BE RECEIVED IN THE PURCHASING DEPARTMENT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 11/24/2009 AND PUBLICLY OPENED UPON COMPLETION OF ADMINISTRATIVE TASKS.

LATE BIDS WILL NOT BE ACCEPTED

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES DISQUALIFY BID.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS
THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. THIS BID PACKAGE MUST BE RETURNED IN ITS ENTIRETY.

Questions on this bid are to be faxed to (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH will accept one bid only from each vendor. Items bid must meet or exceed specifications.

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection.

If the bid exceeds \$20,000.00 and the bidder is an agency, corporation, partnership, or other legal entity, the president, vice-president, secretary/treasurer, or an authorized agent, shall sign the proposal, and satisfactory evidence of the authority of the person signing for the agency, corporation, partnership, or other legal entity shall be attached to the proposal.

AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE.

Preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA-R.S.38:2251-2261"

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

JEFFERSON PARISH requires a firm price. Quoted price will remain firm until _____

PRICES: Jefferson Parish is exempt from paying sales tax under LSA-RS 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. If a contractor is to act as Purchasing Agent for tax-exempt purposes, the Parish shall specifically state so within this bid specification. All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A117.1-1961).

RESPONSE TO INVITATION: If your company is unable to bid on this request, please state your reason on bid form, and return to this office before bid opening date. Failure to do so may result in the removal of your company from Jefferson Parish's vendors list.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 105529 or 105530 dated 5/17/06. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053.

POSTING OF BIDS: Non-Advertised bids will be posted on bulletin board in Suite 4400, Jefferson Parish General Government Building, Gretna, LA, for a period of Five (5) working days after opening date.

Advertised bids will be tabulated and a copy forwarded to each responsive bidder.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

3,5,6,7,8,9,10,11,12,13,14,15,16

1. All bidders are invited to attend the pre-bid conference. Failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. This conference is held to allow questions to be answered and inspect the site with owner's representative, etc. Failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification (with no additional cost to the owner).
2. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project.
3. A Louisiana state contractor's license may be required in accordance with LSA-R.S. 37:2150 et seq.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

4. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
5. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.
6. All awards in excess of \$5,000.00 for the construction, alteration, or repair of any public works will be reduced to a formal contract which shall be recorded at the contractor's expense. A price list of recordation costs may be obtained from the Clerk of Court and Ex-officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 reduced to formal contract will require a performance bond.
7. A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. Performance bond shall be supplied at the signing of the contract.
8. Please indicate if you have insurance: YES _____ NO _____
Successful bidder will be required to furnish proof of insurance to this office.
Successful bidder will be required to furnish Federal I.D. Number.
9. Minimum insurance requirements for this bid are as indicated on the attached sheet.
10. Each bid must be accompanied by a cashier's check, certified check, money order, or surety bid bond in the amount of 5% of the bid.
11. Affidavit required to be submitted with bids on all solicitations for construction, alteration or demolition of public building or project. (LSA-R.S. 38:2224)
12. This is a requirements contract to be provided on an as needed basis.
13. All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO _____

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF _____.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

14. In the event that the successful bidder cannot furnish a specific item or material and labor in the required time, JEFFERSON PARISH may purchase on an emergency basis from the next lowest bidder, or available source, until such time as the successful bidder has notified the PARISH in writing that his stock or labor capability has been replenished. The difference in price will be charged against the successful bidder of this contract, and evidence of purchases and price will be provided.
15. Vendor will be required to submit to the chief buyer of the JEFFERSON PARISH Purchasing Department a quarterly usage report by item of all items listed on this proposal.
16. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be disqualified if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES _____

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK _____

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

***** ALL BIDDERS MUST COMPLETE SECTION BELOW *****

FIRM NAME: _____

SIGNATURE: _____

(Must be signed here)

TITLE: _____

PRINT OR TYPE NAME: _____

ADDRESS: _____

CITY, STATE: _____

ZIP: _____

TELEPHONE: _____

()

FAX: _____

()

EMAIL ADDRESS: _____

TOTAL PRICE OF ALL BID ITEMS: \$ _____

THIS BID MUST BE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE COMPANY/FIRM FOR BID TO BE VALID. BID PACKAGE, INCLUDING INSTRUCTIONS AND SPECIFICATIONS, MUST BE RETURNED IN ITS ENTIRETY FOR BID TO BE VALID. SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the bid number and bid opening date indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			<p>TWO (2) YEAR CONTRACT FOR POINT REPAIR OF SEWER SERVICE LATERALS, ETC., FOR</p> <p>THE JEFFERSON PARISH DEPARTMENT OF SEWERAGE AND ALL JEFFERSON PARISH AGENCIES AND MUNICIPALITIES</p> <p>A LOUISIANA STATE CONTRACTOR LICENSE IS REQUIRED IN THE CATEGORY OF MUNICIPAL AND PUBLIC WORKS CONSTRUCTION</p> <p>A PERFORMANCE BOND IS REQUIRED (50% OF THE CONTRACT PRICE)</p>		
1	1080	LF	0001 - Restore 6 inch sewer mainline feederline or service lateral by point repair		
2	722	LF	0002 - Restore 6 inch sewer mainline feederline or service lateral beyond point repair		
3	1850	LF	0003 - Restore 8 inch - 10 inch main by point repair (0 feet - 6 feet deep)		
4	640	LF	0004 - Restore 8 inch -10 inch main by point repair (6 feet - 8 feet deep)		
5	762	LF	0005 - Restore 8 inch - 10 inch main by point repair (8 feet -10 feet deep)		
6	32	LF	0006 - Restore 8 inch - 10 inch main by point repair (10 feet - 12 feet deep)		
7	32	LF	0007 - Restore 8 inch - 10 inch main by point repair (beyond 12 feet deep)		
8	647	LF	0008 - Restore 8 inch - 10 inch main beyond point repair (0 feet - 6 feet deep)		
9	81	LF	0009 - Restore 8 inch - 10 inch main beyond point repair (6 feet - 8 feet		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			deep).		
10	51	LF	0010 - Restore 8 inch - 10 inch main beyond point repair (8 feet - 10 feet deep).		
11	24	LF	0011 - Restore 8 inch - 10 inch main beyond point repair (10 feet - 12 feet deep).		
12	16	LF	0012 - Restore 8 inch - 10 inch main beyond point repair (beyond 12 foot deep)		
13	49	LF	0013 - Restore 12 inch -15 inch main by point repair (0 feet - 6 feet deep)		
14	14	LF	0014 - Restore 12 inch - 15 inch main by point repair (6 feet - 8 feet deep)		
15	160	LF	0015 - Restore 12 inch - 15 inch main by point repair (8 feet - 10 feet deep)		
16	96	LF	0016 - Restore 12 inch -15 inch main by point repair (10 feet - 12 feet deep)		
17	24	LF	0017 - Restore 12 inch - 15 inch main by point repair (beyond 12 feet deep)		
18	24	LF	0018 - Restore 12 inch - 15 inch main beyond point repair (0 feet - 6 feet deep)		
19	10	LF	0019 - Restore 12 inch - 15 inch main beyond point repair (6 feet - 8 feet deep)		
20	10	LF	0020 - Restore 12 inch - 15 inch main beyond point repair (8 feet - 10 feet deep).		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
21	10	LF	0021 - Restore 12 inch - 15 inch main beyond point repair (10 feet - 12 feet deep)		
22	10	LF	0022 - Restore 12 inch -15 inch main beyond point repair (beyond 12 feet deep)		
23	10	LF	0023 - Restore 16 inch main by point repair (0 feet - 6 feet deep)		
24	10	LF	0024 - Restore 16 inch main by point repair (6 feet - 8 feet deep).		
25	10	LF	0025 - Restore 16 inch main by point repair (8 feet - 10 feet deep)		
26	10	LF	0026 - Repair 16 inch main beyond point repair (0 feet - 6 feet)		
27	10	LF	0027 - Repair 16 inch main beyond point repair (6 feet - 8 feet deep)		
28	10	LF	0028 - Repair 16 inch main beyond point repair (8 feet - 10 feet deep)		
29	10	LF	0029 - Restore 18 inch main by point repair (0 feet - 8 feet)		
30	10	LF	0030 - Restore 18 inch main by point repair (8 feet - 12 feet deep)		
31	10	LF	0031 - Restore 18 inch main by point repair (beyond 12 feet)		
32	10	LF	0032 - Restore 18 inch main beyond point repair (0 feet - 8 feet deep)		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
33	10	LF	0033 - Restore 18 inch main beyond point repair (8 feet - 12 feet deep)		
34	10	LF	0034 - Restore 18 inch main beyond point repair (beyond 12 feet)		
35	10	LF	0035 - Restore 21 inch main by point repair (0 feet - 8 feet deep)		
36	10	LF	0036 - Restore 21 inch main by point repair (8 feet - 12 feet deep)		
37	10	LF	0037 - Restore 21 inch main by point repair (beyond 12 feet)		
38	10	LF	0038 - Restore 21 inch main beyond point repair (0 feet - 8 feet deep)		
39	10	LF	0039 - Restore 21 inch main beyond point repair (8 feet - 12 feet deep)		
40	10	LF	0040 - Restore 21 inch main beyond point repair (beyond 12 feet)		
41	10	LF	0041 - Restore 24 inch main by point repair (0 feet - 8 feet deep)		
42	10	LF	0042 - Restore 24 inch main by point repair (8 feet - 12 feet deep)		
43	10	LF	0043 - Restore 24 inch main beyond point repair (0 feet - 8 feet deep)		
44	10	LF	0044 - Restore 24 inch main by point repair (8 feet - 12 feet deep)		
45	10	EA	0045 - Repair manhole line connection		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
46	1696	BDFT	0046 - Additional sheeting, bracing (as directed)		
47	1450	CUYD	0047 - Additional granular material		
48	1472	CUYD	0048 - Additional limestone		
49	10	HR	0049 - Exploratory excavation		
50	43446	SQYD	0050 - Remove and replace PCC roadway/1 inch thickness		
51	1309	SQYD	0051 - Remove and replace asphaltic concrete roadway/6 inch thickness		
52	4229	SQYD	0052 - Place and remove temporary asphaltic concrete roadway/2 inch thickness		
53	103	LF	0053 - Remove and replace concrete curb gutter		
54	4344	LF	0054 - Replace concrete curb		
55	1000	SQFT	0055 - Repoint existing sewer manholes or wet well		
56	25	EA	0056 - Adjusting manhole		
57	32	VF	0057 - Sewer manholes - 4 feet diameter		
58	20	VF	0058 - Sewer manholes - 6 feet diameter		
59	3181	SQYD	0059 - Slab sodding		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
60	1643	SQYD	0060 - Remove and replace concrete driveways (6 inch thick)		
61	38	SQYD	0061 - Remove and replace concrete driveways (6 inch thick with wash gravel finish)		
62	20	SQYD	0062 - Remove and replace concrete driveways (6 inch thick with brick to match)		
63	1371	SQYD	0063 - Remove and replace concrete sidewalks (4 inch thick)		
64	20	SQYD	0064 - Remove and replace brick sidewalks		
65	20	SQYD	0065 - Remove and replace stone sidewalks		
66	20	SQYD	0066 - Remove and replace concrete sidewalks with wash gravel finish		
67	165	SQYD	0067 - Installation of handicap access ramp		
68	188	EA	0068 - Installation of sewer cleanout - Type 1		
69	60	LF	0069 - Installation of riser from sewer mainline to sewer service lateral		
70	1000	LF	0070 - Smoke Testing		
71	20	EA	0071 - Emergency mobilization and demobilization		
72	8	EA	0072 - Set up 6 inch by-pass pumping		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
73	5	EA	0073 - Set up 8 inch by-pass pumping		
74	2	EA	0074 - Set up 10 inch by-pass pumping		
75	2	EA	0075 - Set up 12 inch by-pass pumping		
76	24	HR	0076 - Operation of 6 inch by-pass pumping		
77	24	HR	0077 - Operation of 8 inch by-pass pumping		
78	24	HR	0078 - Operation of 10 inch by-pass pumping		
79	24	HR	0079 - Operation of 12 inch by-pass pumping		
80	5	EA	0080 - Utility conflict manhole up to 3 foot depth		
81	10	VF	0081 - Additional vertical foot height of conflict manhole above 3 foot depth		
82	5	EA	0082 - Utility conflict box up to 5 foot depth		
83	10	VF	0083 - Additional vertical foot height of conflict box above 5 foot depth		
84	100	LF	0084 - Furnish and install 4 inch restrained joint force main		
85	100	LF	0085 - Furnish and install 6 inch restrained joint force main		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
86	100	LF	0086 - Furnish and install 8 inch restrained joint force main pipe		
87	100	LF	0087 - Furnish and install 10 inch restrained joint force main pipe		
88	100	LF	0088 - Furnish and install 12 inch restrained joint force main pipe		
89	100	LF	0089 - Furnish and install 14 inch restrained joint force main pipe		
90	100	LF	0090 - Furnish and install 16 inch restrained joint force main pipe		
91	100	LF	0091 - Furnish and install 18 inch restrained joint force main pipe		
92	100	LF	0092 - Furnish and install 20 inch restrained joint force main pipe		
93	100	LF	0093 - Furnish and install 24 inch restrained joint force main pipe		
94	50	EA	0094 - Insertion of Tee for service lateral in 8 inch thru 12 inch mainline		
95	10	EA	0095 - Insertion of Tee for service lateral (above 12 inch mainline)		
96	10	EA	0096 - Piling - Class 5 modification 40 foot long		
97	35	CUYD	0097 - Foundation concrete wet well and/or dry pit		
98	24	VF	0098 - 6 foot diameter wet well or dry pit 6 feet to 16 feet depth		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
99	48	VF	0099 - 6 foot diameter wet well or dry pit 16 feet to 26 feet depth		
100	24	VF	0100 - 8 foot diameter wet well or dry pit 6 feet to 16 feet depth		
101	48	VF	0101 - 8 foot diameter wet well or dry pit 16 feet to 26 feet depth		
102	24	VF	0102 - 10 foot diameter wet well or dry pit 6 feet to 16 feet depth		
103	48	VF	0103 - 10 foot diameter wet well or dry pit 16 feet to 26 feet depth		
104	24	VF	0104 - 12 foot diameter wet well or dry pit 6 feet to 16 feet depth		
105	48	VF	0105 - 12 foot diameter wet well or dry pit 16 feet to 26 feet depth		
106	35	CUYD	0106 - Top concrete cover wet well and/or dry pit		
107	27	DY	0107 - Rubber tire loader/backhoe		
108	48	DY	0108 - 5/8 CY track backhoe		
109	34	DY	0109 - 1 CY track backhoe		
110	10	DY	0110 - 2 CY rubber tire loader		
111	145	DY	0111 - 2 CY track backhoe		
112	10	DY	0112 - D-4 dozer		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
113	220	DY	0113 - Chain saw		
114	185	DY	0114 - Multi-purpose saw		
115	132	DY	0115 - 3 inch Diaphram pump with 20 foot suction and 50 foot discharge hose		
116	10	DY	0116 - 6 inch centrifugal pump with 20 foot suction and 50 foot discharge hose		
117	229	DY	0117 - Small tools		
118	228	DY	0118 - Pick-up truck		
119	209	DY	0119 - Utility truck		
120	1	DY	0120 - Single axle truck		
121	150	DY	0121 - Tandum axle dump truck		
122	15	DY	0122 - Welding truck complete with 200 amp welder and torch set		
123	24	DY	0123 - Small gasoline wacker plate approximately 24 inch X 24 inch		
124	32	DY	0124 - Construction water meter and 100 foot of 1-1/2 inch hose		
125	115	HR	0125 - Low Boy		
126	2169	HR	0126 - Foreman		

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00095921

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
127	1868	HR	0127 - Operator		
128	777	HR	0128 - Pipe Layer		
129	7592	HR	0129 - Laborer		
130	163	HR	0130 - Welder		
131	8	HR	0131 - Welder helper		
132	8	HR	0132 - Carpenter		
133	1428	HR	0133 - Truck driver		
134	40	HR	0134 - Electrician		
135	40	HR	0135 - Mechanic		
136	1	JOB	0136 - Unforeseen work - point repair of existing sewer mainlines/force mains, upgrade lift stations. This item shall not be included in the total bid price of all items quoted and is to be used as a reference to process invoices by purchasing division upon the authoriza- tion by the bid award. The lump sum amount of this item is not given herein. However, this lump sum amount will be indicated in said departmental resolu- tion. **NOTE: THIS ITEM IS NOT TO BE PRICED**		

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF

INCORPORATED.

AT THE MEETING OF DIRECTORS OF _____
 INCORPORATED, DULY NOTICED AND HELD ON _____,
 A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
 WAS:

RESOLVED. THAT _____, BE AND IS HEREBY
 APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
 FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
 BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
 AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
 DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
 EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
 CONTRACTS AND ACTS AND TO RECEIVE AND RECEIPT THEREFOR ALL
 PURCHASE ORDERS AND NOTICES ISSUED PURSUANT TO THE PROVISIONS OF
 ANY SUCH BID OR CONTRACT, THIS CORPORATION HEREBY RATIFYING,
 APPROVING, CONFIRMING, AND ACCEPTING EACH AND EVERY SUCH ACT
 PERFORMED BY SAID AGENT AND ATTORNEY-IN-FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
 A TRUE AND CORRECT COPY OF AN
 EXCERPT OF THE MINUTES OF THE
 ABOVE DATED MEETING OF THE BOARD
 OF DIRECTORS OF SAID CORPORATION,
 AND THE SAME HAS NOT BEEN
 REVOKED OR RESCINDED.

SECRETARY-TREASURER

DATE

AFFIDAVIT

STATE OF LOUISIANA
PARISH OF JEFFERSON

BEFORE ME, THE UNDERSIGNED AUTHORITY, PERSONALLY CAME AND APPEARED _____, WHO AFTER BEING BY ME DULY SWORN, DEPOSED AND SAID THAT HE IS THE FULLY AUTHORIZED _____ OF _____ (HEREIN AFTER REFERRED TO AS BIDDER) THE PARTY WHO SUBMITTED A BID FOR _____, BID NO. _____ AND SAID AFFIANT FURTHER SAID:

- 1) That bidder employed no person, corporation, firm, association or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the bidder whose services in connection with the construction of the public building or project or in securing the public contract were in the regular course of their duties for bidder; and
- 2) That no part of the contract price received by bidder was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the bidder whose services in connection with the construction of the public building or project were in the regular course of their duties for bidder.
- 3) Said bid is genuine and the bidder has not colluded, conspired or agreed directly or indirectly with any other bidder to offer a sham or collusive bid.
- 4) Said bidder has not in any manner, directly or indirectly, agreed with any other person to fix the bid price of affiant or any other bidder, or to fix any overhead, profit or cost element of said bid price, or that of any other bidder, or to induce any other person to refrain from bidding.
- 5) Said bidder is not intended to secure an unfair advantage of benefit from the Parish of Jefferson or in favor of any person interested in the proposed contract.

SWORN TO AND SUBSCRIBED
BEFORE ME THIS _____
DAY OF _____, 20____

NOTARY PUBLIC

INSURANCE REQUIREMENTS

All insurance requirements shall conform to Jefferson Parish Resolution No. 105529 or No. 105530 dated 05/17/2006.

The contractor shall not commence work under this contract until he has obtained all insurance and complied with the requirements of the specifications and Resolution No. 105529 or No. 105530.

WORKER'S COMPENSATION INSURANCE

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

COMMERCIAL GENERAL LIABILITY

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

COMPREHENSIVE AUTOMOBILE LIABILITY

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.
Property Damage Liability \$1,000,000.00 each occurrence.

DEDUCTIBLES

No insurance required shall include a deductible not greater than \$10,000.00. The cost of the deductible be borne by the contractor.

UMBRELLA LIABILITY COVERAGE

An umbrella policy or excess may be used to meet minimum requirements.

CONSTRUCTION AND RENOVATION PROJECTS REQUIRE THE FOLLOWING:

OWNER'S PROTECTIVE LIABILITY

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

BUILDER'S RISK INSURANCE

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.

SPECIFICATIONS - POINT REPAIR**Section 01010****GENERAL CONDITONS/SUMMARY OF WORK****PART 1 - General Conditions****1.01: Scope of Contract:**

The work to be performed under this contract consists of replacement or restoration of existing sewer mains (gravity or force) by Point Repair, upgrade lift stations, the restorations of, roadways, driveways, sidewalks, and ground cover (sod) associated with the work. Point Repairs will be conducted throughout Jefferson Parish (Eastbank and Westbank). All point repairs are intended for both gravity and force mains.

This is a unit price contract and the quantities shown on the "Bid Form" are for comparison of bids only. The actual quantities installed will be on an as needed basis and may vary significantly from estimated quantities.

All work covered under this contract must conform to Jefferson Parish Engineering Department standard details sheets available in the Jefferson Parish Engineering Department.

The Contractor is made aware that, because of the nature of this contract, it may be necessary to make repairs on Emergency 24 hours, seven (7) days a week, at night, week-ends and holidays. However, there will be no extra compensation for these repairs during these events. The Contractor must have two (2) contact employees, one primary and one backup, on a 24-hour basis, available to coordinate work initiation.

1.02: Familiarization with the Work:

Before submitting its bid, each prospective bidder shall familiarize himself with the work, local labor conditions and all laws, regulation, and other factors affecting performance of the work. Bidder shall carefully correlate their observations with the requirements of the contract documents and otherwise satisfy itself of the expense and difficulties to perform the work. The submission of a bid will constitute a representation of compliance by the bidder. There will be no subsequent financial adjustment for lack of such familiarization.

1.03: No pre-bid conference will be held.**1.04: Contract time:**

Two (2) year contract.

1.05: Sub-contractors:

All bidders wishing to use the services of sub-contractors must submit, with their bid, a complete list of all sub-contractors. If no subcontractors will be used, a statement to that effect must be included with the bid. Failure to submit a sub-contractor list, with the bid, will result in bid rejection. This is a mandatory requirement.

1.06: Jefferson Parish General Specifications:

The general specifications for these contract documents are the new uniform set of general specifications of Jefferson Parish, under Jefferson Parish Council Resolution No. 105530, adopted May 17, 2006. The resolution containing the new uniform set of general specifications is not reproduced herein, however, bidders shall be presumed to have full knowledge of these general conditions. Copies are, at all times, available with the Clerk of Jefferson Parish Council.

1.07: Work Scheduling:

Contractor will agree to commence contract work upon notification pending award by council resolution prior to signing contract under same terms and conditions of contract documents.

Work under this contract will be released by written Work Orders, which will include available maps and instructions for the exact work to be done. The maps will reflect the approximate location and existing conditions of utilities if available.

After receiving the Work Order the Contractor shall contact the designated Project Manager, as provided to the Contractor in writing, to arrange for inspection of the work. No work shall be performed until a starting time has been agreed upon between the Contractor and the Project Manager. The starting time shall be as stated in the Agreement. The time of completion for each Work Order shall be as stipulated in the Agreement. Should an emergency situation interrupt any work in progress by the Contractor or make it impossible for the Contractor to start work on a Work Order, then the Contractor will not be held liable for failing to either complete the work in progress or begin the new work within the specified time. Also, in an emergency, the Parish may stop scheduled work and/or postpone the work to a later date. Additionally, the Parish shall not issue Work Orders in such quantity that would make it improbable for the Contractor to begin work within the specified time.

The Contractor performing work under this contract shall be required to coordinate his operations with the designated Project Manager. The Contractor shall notify residents by (fliers, door hangers, etc.) a minimum of 24 hour prior to commencing work on any issued work order by the Owner. Additional notification periods for various items of work can be found in the specifications.

Once work has begun at a specific location, the Contractor must diligently pursue the work to be done until the work is completed. The Parish reserves the right to order the Contractor to dispatch additional men and equipment to the job site if, in the opinion of the Project Manager, work is not proceeding in an orderly manner. This time limit for completion of the ordered work will be strictly enforced and should the work not be progressing on schedule, the Parish may order the Contractor to employ additional crews in order to complete the work on time.

The Project Manager has the right to require the Contractor to remove incompetent employees from the jobsite. In order for there to be proper communication between the Jefferson Parish Engineering Inspector and the contractor, the contractor shall provide radio or cell phone communication equipment to the Inspector for the duration of this contract. The cost shall be incidental to all bid items. This communication equipment shall be used for work related communication and not personal use.

1.08: Liquidated damages:

Because of the nature of this contract, on an as-needed basis, liquidated damages will not be assessed. If the Contractor should fail to complete issued work orders in a timely manner and to the satisfaction of the Parish the issuance of additional work orders will be withheld with the possibility of contract cancellation.

Pursuant to LSA R.S. 38:2248, Owner shall retain the following percentages of each progress payment until payment is due under the terms and conditions governing substantial completion or final payment.

Contract Amount	Retainage
\$0 - \$1,000,000	10%
\$1,000,000 or greater	5%

A **“Point Repair”** is defined as exposing a specific length of sewer line (either sewer main or sewer service lateral – house connection), making the necessary repairs, backfilling and returning the surface area to the condition which existed prior to construction.

It is intended that only one “Point Repair” will be performed at any one location, i.e. If a “Point Repair” is performed on a mainline sewer, at a sewer house connection, the contractor will be responsible for reconnecting this connection to the mainline sewer. The contractor will be paid for the installation of the “Tee” (Items Nos. 94 or 95) and for any “Rise Connection” (Item No. 69).

The above also applies if the original point repair is to the sewer house connection then additional footage along the mainline sewer will be paid as “Beyond Point Repairs”.

“Beyond Point Repair” includes all of the above items of work for repairs beyond the initial point repair lengths.

PART 2 - Execution

2.01: Point Repair Standard Lengths

It is the intent of these specifications to standardize the length of pipe to be replaced on an individual point repair. Therefore, regardless of the pipe diameter, the length of pipe to be replaced on an individual point repair shall be as follows:

Definitions:

Sewer Mainline – A length of conduit, manufactured from various materials and in various lengths, that when jointed together transports wastewater.

Sewer Feederline – A length of conduits, manufactured from various materials and in various lengths, that when jointed together transports wastewater to sewer mainlines.

Sewer Service Lateral – A length of conduit manufactured from various materials and in various lengths, that when joined together transports

wastewater from a residence/business to a sewer Feederline or a Sewer Mainline.

Sewer Force Main – a length of conduit, under pressure, manufactured from various materials and in various lengths, that when joined together transports wastewater from a lift station/pump station to a down stream manhole or lift station.

Depth of Sewer Mainline or Sewer Feederline Minimum Length of pipe to be replaced

0 to 8 feet	10 feet
Greater than 8 feet	16 feet

Depth of Sewer Service Lateral Minimum Length of pipe to be replaced

0 to 8 feet	8 feet
Greater than 8 feet	16 feet

Note: Depth of repair is determined by averaging the invert elevation of the sewerline at the upstream and downstream manholes of the repair.

Depth of Sewer Force Main Minimum Length of pipe to be replaced

Varies for buried or aerial Force mains	Linear footage field verified On a case by case basis
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It is intended that only one "Point Repair" will be performed at any one location. When performing a point repair to a sewer house connection that require replacement of a portion of mainline sewer then the actual length of mainline sewer replaced will be paid for at the unit price bid for beyond point repair for size and depth of mainline sewer.

If a "Point Repair" is performed on a mainline sewer, at a sewer house connection, the contractor will be paid for the installation of a "Tee". The installation of the "Tee" will include the reconnection of the sewer house connection and the replacement of up to ten (10') feet of sewer house connection. Any additional length of sewer house connection required beyond the initial will be paid at the unit price bid for "Beyond Point Repair"

2.02: Contractor's Use of Premises

If the repair of a sewer service lateral requires the Contractor to enter private property, he shall first receive the permission of the property owner. Prior to the commencement of any work (other than emergency work) the Contractor will distribute a printed notice informing the residents of upcoming work, at least 72 hours in advance of mobilization. The notice will include phone numbers of points of contact, and will be submitted to the Sewerage Department for approval prior to distribution. This notice may be in the form of a flyer or door hanger.

2.03: Work Orders

The Contractor's project superintendent will be required to visit each "point repair" location with the PARISH'S sewer rehab manager or Inspector prior to start of work.

The Contractor will be issued a work order to proceed with a "point repair", and at that time be furnished with a description of the work to be done. Work orders will be issued

covering specific service areas within the Parish (both Eastbank and Westbank).

2.04: Work Sequence

The work orders shall be prioritized by the Owner.

The time requirements for the commencement and completion of repair and restoration work ordered are as follows:

	<u>Work to Commence</u>	<u>Repair to be Completed</u>
Emergency Repairs	within 1 hr of notification	work as required until repair is complete
Priority Repairs	within 24 hrs. of notification	within 5 working days
Non-Priority Repairs	within 10 days of notification	within 30 calendar days

NOTE: All restoration for any of the above type of repairs must be completed within 45 days after the repair has been completed. Emergency repair must be completed as soon as possible, and work is to continue until complete. The Emergency Mobilization Cost item is intended to cover any and all compensation for premium time, overtime, etc.

Failure of the Contractor to meet the above specified time constraints will result in the following:

- A. Have the work performed by others and back charged to the Contractor
- OR**
- B. Persistent failure of the Contractor to meet the response deadlines (3 occurrences or more) may lead to contract termination. Notification of deficient performance will be by certified mail.

The failure of Jefferson Parish to assert a breach for the failure of the Contractor to perform at anytime shall not be construed to be a waiver of Jefferson Parish's rights hereunder.

Each work order will designate a work order number and work item number (specific for each address). All correspondence, billing, etc. pertaining to the work shall reference this job number designation.

If, in the opinion of the Owner and Engineer, the Contractor does not diligently proceed with the work, or does not complete restoration within the time limits specified, then the issuance of additional work orders will be withheld.

2.05: Method of Construction

- A) Prior to beginning construction the contractor shall submit, for approval, the sites to be used for locating office trailers and material storage.
- B) All construction supervisory personnel, including job foreman, will be required to attend the pre-construction conference. The Contractor will be required to designate individual repair crews and a designated restoration crews before work orders are issued.
- C) The Contractor shall furnish all labor, materials, equipment, tools, services and incidentals to complete all work required by these specifications and shown

Standard Drawings.

All appurtenances for tie-ins to the existing system (including the re-connection of sewer service connections), lumber foundation and supports, bedding, sheeting and bracing, dewatering, sand backfill, etc. shall be included in the unit price for bid for "Point Repair", unless otherwise specified.

The Contractor will be required to have all equipment and materials on hand prior to commencement of work.

The Contractor will be responsible for the method of excavation (machine, hand, or both) used for the point repair.

When excavating for the repair of sewer by point repair the contractor will be required to load the excavated material directly into dump trucks for disposal. No concrete, asphalt, or excavated material will be allowed to be deposited within the R/W limits during construction.

- D) The Contractor shall schedule his work so that all construction between consecutive manholes is complete prior to beginning work at another location.
- E) All new sewer main repairs and service connections shall be installed at the existing elevations unless altered in the field by the Project Engineer. The Contractor shall be required to provide an acceptable method for establishing a proper grade for the pipe being replaced.
- F) The Contractor shall isolate the section of sewer where work is being performed by plugging the upstream and downstream manholes. If sewerage builds up to within two feet (2') of the top of the upstream manhole or if directed by the Project Engineer, the Contractor shall pump the sewerage through a by-pass piping system to the downstream manhole. All by-pass pumping using **4 inch diameter pumps or less** will be considered incidental to the point repairs and will not be considered for direct payment.
- G) The connection of 6" through 24" pipes of dissimilar material, either in a main line sewer or service connection, shall be accomplished by the use of a Fernco Flexible Coupling with stainless steel shear rings, supported in accordance with manufacturer's details, or approved equal.
- H) All work to be done under this Contract shall be done with minimum inconvenience to the users of the sewer system. The Contractor shall coordinate his work with private property owners such that sewer service is maintained to all users to the maximum extent possible.
- I) Trench sheeting will be used as required by the specifications. This is both a safety and design requirement.
- J) Temporary asphalt will be used when directed at "cuts" in all streets and sidewalks in lieu of limestone as determined by field personnel. This asphalt will not be tested and is understood to be only temporary, and shall be replaced with permanent asphalt or concrete at a later date (minimum compaction time shall be six (6) weeks).
- K) All existing concrete paving, roadway and sidewalks, shall be removed to the nearest joint. All asphalt paving to be removed shall be "saw cut". No "spade" cuts will be allowed. Once street "cuts" are prepared for paving they must be

completed by the following day. No excavations are to remain open over a weekend or holiday period.

- L) Check and maintain traffic control signs and barricades around all sidewalks, driveways, and roadway cuts during weekend or holiday periods to insure they remain in place.
- M) Construction crews are to clean the roadway area on a daily basis. Contractor must use the proper water meters when utilizing water from fire hydrants. These meters may be obtained from the Jefferson Parish Department of Water.
- N) The Contractor shall coordinate his operations with all Jefferson Parish Public Works Departments as may be required. In those instances where a lift station has to be shut down in order to effectively perform a point repair, a 24-hour notice by the Contractor must be given to the proper lift station department. The Contractor is responsible to have all underground utilities located and marked by the appropriate agencies at no direct pay. It shall be the sole responsibility of the contractor to comply with these requirements.

The Contractor is responsible to contact the Owner's representative if during the course of excavation he encounters other sewer lines (i.e. service laterals), and the Owner's representative will provide direction as to whether other repairs are required.

- O) Should the Contractor's activities require the complete closure of any roadway all appropriate Public Works Departments are to be notified 24-hours in advance. Should major streets require closure, this department will require at least seven (7) working days to obtain approved traffic control plans. Contractor shall be responsible for notifying the Fire Department of any street closures where repairs are being performed.
- P) Upon completion of a "Point Repair" the Contractor shall provide the Engineer with an estimate by bid item of the required restoration work. All restoration work (sidewalk, driveway, roadway replacement and sod) will be completed within 45 calendar days after the point repair has been accomplished. Should the Contractor fail to meet these requirements in a continual bias, the Owner will exercise his rights under the General Conditions.
- Q) No construction material will be stored in roadways overnight.
- R) Contractor shall adhere to Ordinance 21243 dated March 31, 2001. (Preservation of trees and other vegetation on public property).

2.06: Pipe Condition Inspection and Testing Requirements

Prior to replacing the pipe in a point repair, the Contractor shall determine the condition of the pipe on both sides of the point repair by lamping the line a minimum of 20 feet in each direction, and report his findings of any defects and/or deficiencies to the Engineer or Owner's Representative. In some instances, it may be necessary to repair an additional length of sewer line beyond the stated "minimum length". Accordingly, if ordered, the additional length of the point repair will be paid by the linear foot of pipe replaced at the applicable "beyond point repair" bid item price.

After completion of each required point repair on a line segment, but prior to backfilling, the repaired section will be isolated by plugging the other sewers in the

upstream and downstream manholes. Smoke testing shall then be performed on that section of sewer for a minimum period of 5 minutes in the presence of the Owner's Representative. It is the Contractor's responsibility to notify the Owner's Representative when testing will be performed. Smoke Testing will be accomplished as specified in Section 13000. If after 5 minutes, no smoke emerges from the repaired section, then the repair shall be deemed to have passed the test. If the section of sewer fails the test, the leak shall be repaired and retested as specified. Any repairs required, as a result of a test failure, will be accomplished by the Contractor at no expense to the Owner. Smoke testing after a repair is completed is considered incidental to cost of point repair, no separate payment will be made.

In some instances smoke testing will reveal defects to the sewer line adjacent to where repairs were conducted, and as a result it may become necessary to repair an additional length of sewer line. Accordingly, if ordered, the additional length of the point repair will be paid by the linear foot of pipe replaced at the applicable "beyond point repair" bid item price, if the defect is adjacent to the newly repaired section. However, should smoke testing reveal a defect not adjacent of the repair conducted or the adjacent service lateral to the repair conducted, then any work authorized will be considered a separate point repair.

SECTION 01015 EMERGENCY SEWER SYSTEM REPAIRS

Part 1 - General:

1.01: Scope of work:

During the course of this Point Repair Contract it may become necessary for the Owner to order emergency sewer system repair work. The work required, in most instances, will be covered by applicable Point Repair unit price bid items. However, some emergency repair work and portions of point repair work may not be covered by unit price bid items. The exact nature of the emergency work that may be encountered during this contract cannot be established by the Owner beforehand.

Part 2 - Execution:

2.01: Work Order

The emergency work will be issued to the contractor on a work order as described in Section 01010.

2.02: Time to Commence and Complete Repairs

Upon notification of required emergency repairs, the Contractor will commence work within one hour (as stipulated under 3.04 Work Sequence). Work is to continue by the Contractor as required until the repair is complete (beyond normal working hours if required), or until such time as agreed upon by Owner or Engineer that the emergency repair has reached a stabilized situation, which would allow for work to cease, and recommence for final completion during normal working hours.

2.03: Time to Complete Restoration

The area affected by emergency repair operations will be restored within 45 days.

Part 3 - Payment:

3.01: Emergency Mobilization and Demobilization Bid Item

The emergency mobilization and demobilization bid item will be utilized to compensate the Contractor for the mobilization and demobilization of all necessary labor, equipment, materials and incidentals to an emergency work site during normal work hours or when due to sewage flow requirements the work is required to be performed after normal work hours. Normal work hours are defined as 7:00 a.m. - 5:00 p.m. Monday thru Friday. Payment will only be made for emergency mobilization and demobilization when the Contractor is directed to commence work under an emergency work order situation or as directed by the Engineer.

3.02: Payment for Repairs and Restoration

Payment for emergency repairs and required restoration will be made utilizing all applicable unit price bid items. Payment for this work will be included in the authorized contract total amount and will not require a change in the contract value.

Section 01025 MEASUREMENT AND PAYMENT

Part 1 - General

Payment for the various items of the Bid Schedule, as further specified herein, shall include all compensation to be received by the Contractor for furnishing all tools, equipment, supplies, and manufactured articles, and for all labors, operations, and incidentals appurtenant to the items of work being described, as necessary to complete the various items of work being described, as necessary to complete the various items of the Work all in accordance with the requirement of the Contract Documents, including all appurtenances thereto, and including all costs of compliance with the regulations of public agencies having jurisdiction. The Contractor is hereby on notice that no separate payment will be made for any item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in the Bid Schedule for the various appurtenant items of work.

All estimated quantities stipulated in the Bid Form or other Contract Documents are approximate and are to be used only (a) as a basis for estimating the probable cost of the work, and (b) for the purpose of comparing the bids submitted for the Work. The actual amounts of work done and materials furnished under unit price items may differ from the estimated quantities. The basis of payment for work and materials will be the actual amount of work done and materials furnished.

Part 2 - Measurement and Payment

2.01: Restore 6-inch Sewer Mainline/Feedline, or Service Lateral by point repair (Item 1 & 2)

A. MEASUREMENT:

Measurement will be by the linear foot of Polyvinyl Chloride (PVC) Pipe and/or Ductile Iron Pipe installed.

B. PAYMENT:

The pay length for a 6" Sewer Mainline/Feederline point repair will be based upon the depth of the sewer line. Depth of repair is determined by averaging the invert elevation of the sewer line at the upstream and downstream manholes of the repair. For lines up to 8 feet in depth the pay length shall be 10 linear feet. For depths exceeding 8 feet, the pay length for this repair shall be 16 linear feet.

The pay length for a 6-inch Service Lateral Point Repair up to 8 feet in depth will be 8 linear feet. For depths exceeding 8 feet, the pay length for this repair shall be 16 linear feet. Exposing and repairing in excess of the specified length for a "Point Repair" of 6-inch mainline/feederline or service lateral, either PVC or Ductile Iron pipe at the same location shall be paid for under the pay item for "Beyond Point Repair" for each linear foot of repair in excess of the initial specified length paid for as a "Point Repair".

All other cost associated such as mobilization and demobilization, excavation, foundation lumber, dewatering, sheeting and bracing which shall be left in place, pipe bedding as detailed on the plans, furnishing and installation of pipe, backfilling, removal and disposal of surplus earth and debris from the site of work, traffic control and barricades and all other items of work associated with a "Point Repair" and "Beyond Point Repair" item, are considered incidental to the repair and will not be considered for separate payment.

2.02: Restore Main by Point Repair or Beyond Point Repair (Item 3 through 44 inclusive)**A. MEASUREMENT:**

Measurement will be by the linear foot of Polyvinyl Chloride (PVC) pipe and/or Ductile Iron Pipe installed.

B. PAYMENT:

A "Point Repair" consists of exposing and repairing at any one location a specific length of sewer main. A "Point Repair" of a sewer main up to 8 feet in depth shall be paid for at the specified length of 10 feet. For depths exceeding 8 feet, the pay length for this repair shall be 16 linear feet. Each "Point Repair" shall be paid for at the rate as determined by depth of repair and applicable size, classification and pay item.

Exposing and repairing in excess of the initial specified length for a "Point Repair" as determined by depth of repair of sewer main shall be paid under the applicable size, classification and pay item for "Beyond Point Repair" for each linear feet of repair in excess of the initial specified length paid for as a "Point Repair".

All other cost associated with "Point Repair" and "Beyond Point Repair" such as mobilization and demobilization, excavation, dewatering, foundation lumber, sheeting and bracing which shall be left in place, pipe bedding as detailed on the plans, furnishing and installing of pipe, backfilling, removal and disposal of surplus earth and debris from the site of work, traffic control and barricades and all other items of work associated with a "Point Repair" and "Beyond Point Repair" item, are considered incidental to the repair and will not be considered for separate payment.

2.03: Additional Sheeting, Bracing and Foundation Lumber (As Directed) (Item 46)**A. MEASUREMENT:**

The measurement for payment for additional sheeting, bracing and foundation lumber where not covered by contract requirements and when directed by Engineer will be by the 1000 foot board measure (MFBM) or portion thereof.

B. PAYMENT:

Where specific site conditions dictate and at the discretion and direction of the Engineer, the use of additional sheeting, bracing and foundation lumber, above that required by the Contract, will be supplied and placed as directed. All sheeting, bracing and foundation lumber supplied and placed shall be left in place. The actual quantity of additional lumber supplied and placed, will be paid for at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment and materials to complete the additional work.

2.04: Addition Granular Material (Item 47)**A. MEASUREMENT:**

The measurement for Granular Material will be by the cubic yard.

B. PAYMENT:

Where specific site conditions dictate and at the discretion and direction of the Engineer, the use of additional granular material (pumped river sand), above that specifically required by the Contract, will be supplied and placed as directed. The actual quantity of granular material supplied and placed, when directed by the Engineer will be paid for at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment and materials to perform the work.

2.05: Additional Limestone (Item 48)

A. MEASUREMENT:

The measurement for Limestone will be by the cubic yard.

B. PAYMENT:

Where specific site conditions dictate and at the discretion and direction of the Engineer, the use of additional limestone, above that specifically required by the Contract, will be supplied and placed as directed. The actual quantity of limestone supplied and placed, when directed by the Engineer, will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment and materials to perform the work.

2.06 Exploratory Excavation (Item 49)

A. MEASUREMENT:

The measurement for Exploratory Excavation will be by the hour.

B. PAYMENT:

Where specific site conditions dictate, exploratory excavation shall be used for determining subsurface conditions. Payment under this item also shall cover all excavation not specifically required by the Contract and for which no pay item exists. The actual time spent of extra material excavated, as directed by the Engineer, will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing labor, equipment and material to excavate and dispose of the excavated material.

2.07: Remove and Replace Portland Cement Concrete Roadway (Item 50)

A. MEASUREMENT:

The measurement for Removal and Replacement of Portland Cement Concrete Roadway will be by the square yard.

B. PAYMENT:

The actual quantity of applicable roadway removed and replaced will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, materials, wire mesh, if required, replacement of signing and striping and any other incidentals necessary to complete the applicable item of work.

Concrete pavement will be paid for in increments of 1" thickness with minimum thickness of 7", i.e. 7" = 7 x bid unit price
9" = 9 x bid unit price

2.08: Remove and Replace Asphaltic Concrete Roadway (Item 51)

Replace and Remove Temporary Asphaltic Concrete Roadway (Item 52)

A. MEASUREMENT:

The measurement for Removal and Replacement of Asphaltic Concrete Roadway, and Placement and Removal of Temporary Asphaltic Concrete Roadway will be by the square yard.

B. PAYMENT:

The actual quantity of asphaltic roadway removed within the authorized pay limit as unit price bid and this price and payment will constitute full compensation for furnish all labor, equipment, materials, and incidentals necessary to complete the item of work.

Should the thickness of the existing asphalt pavement exceed the six-inch (6") asphalt concrete minimum thickness required by the standard detail, the Contractor shall match the existing pavement. Payment for the additional thickness satisfactorily placed will be prorated based upon the unit price for this item of work. For each additional inch of thickness satisfactorily placed, the Contractor will be paid an additional one-sixth (1/6) of the unit price of the pay item. Temporary Asphaltic Roadway will be 2" thick. Payment for any additional thickness of temporary asphalt will be prorated based upon the unit price bid for this time of work.

2.09: Remove and Replace Concrete Curb and Gutter and Placement of Concrete Curb (Items 53 and 54)

A. MEASUREMENT:

The measurement for Removal and Replacement of Concrete Curb and Gutter and Placement of Concrete Curb will be by the linear feet along the face of the curb.

B. PAYMENT:

The actual quantity of concrete curb and gutter and concrete curb removed and/or replaced will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, materials, and incidental necessary to complete the item of work, where applicable, including excavation, backfill, expansion joint material, doweling to existing pavement and other related miscellaneous items, complete in place as shown on the Standard Drawings and indicated in the specifications.

2.10: Re-point Existing Sewer Manholes or Wet Well (Item 55)

A. MEASUREMENT:

The measurement for Re-pointing Existing Sewer Manholes or Wet Wells will be by the square foot manhole surface re-pointed.

B. PAYMENT:

The actual quantity of manhole grouted, as measured above, will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, material and incidentals necessary to complete this item of work. Proper surface preparation to include high pressure water cleaning and muriatic acid cleaning if required is included in this item of work.

2.11: Adjusting Manholes (Item 56)

A. MEASUREMENT:

The measurement of Adjusting Manholes will be by a per each basis.

B. PAYMENT:

The actual number of manholes adjusted will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment and materials necessary for the adjusting of manholes to an elevation established by the Engineer. This adjustment may be either an increase or decrease in the existing manhole casting elevation and will not exceed one (1) foot in either direction.

2.12: Sewer Manholes MANHOLES (Items 57 and 58)

A. MEASUREMENT:

The measurement for Sewer Manholes will be by the vertical foot, or portion thereof, from the invert of the deepest line to the top of casting, based on a 4' wide manhole (Item 57), and 6' wide manhole (Item 58).

B. PAYMENT:

The actual quantity of manholes constructed, as measured above, will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, materials and incidentals necessary to complete the item of work.

2.13: Slab Sodding (Item 59)

A. MEASUREMENT:

The measurement of Slab Sodding will be by the square yard of finished surface after all conditions of the Technical Specifications have been met.

B. PAYMENT:

The actual quantity of slab sodding satisfactorily placed, as measured above, will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, and materials necessary to complete this item of work.

2.14: Remove and Replace Concrete Driveways (Items 60, 61, and 62)

A. MEASUREMENT:

The measurement for Removal and Replacement of Concrete Driveways will be by the square yard.

B. PAYMENT:

The actual quantity of applicable driveway removed and replaced will be paid at the unit price bid, and this price and payment will constitute full compensation for furnishing all labor, equipment, concrete, materials, wire mesh if existing or required, saw-cutting, excavation, backfill, expansion joint material, removal and disposal of the existing driveway, placement and removal of a temporary driving surface (temporary asphalt) while final restoration is pending, and any other related items necessary to complete the applicable item of work.

2.15: Remove and Replace Sidewalks (Items 63, 64, 65, and 65)

A. MEASUREMENT:

The measurement for Removal and Replacement of Sidewalks will be by the square yard.

B. PAYMENT:

The actual quantity of applicable sidewalk removed and replaced will be paid at the unit price bid, and this price and payment will constitute full compensation for furnishing all labor, equipment, concrete, bricks or stones, materials, wire mesh if existing or required, saw-cutting, excavation, backfill, expansion joint material, removal and disposal of the existing sidewalk, placement and removal of a temporary walking surface (temporary asphalt) while final restoration is pending, and any other related items necessary to complete the applicable item of work.

2.16: Installation of Handicap Access Ramp at Curb/Street Transition (Item 67)

A. MEASUREMENT:

The measurement for the installation of handicap access ramps will be by the square yard of surface area formed and/or tooled, within the limits of ramp and curb transitions.

B. PAYMENT:

The actual surface area of sidewalk/curb formed and tooled to meet all applicable

regulatory requirements will be paid at the unit price bid. The bid price shall include all labor and any materials or special tools/forms to complete the work in accordance with all regulatory requirements. NOTE: This bid item is intended to compensate for the extra labor involved in forming access ramps. This item does not include the cost for concrete replacement (for sidewalk and curb), those items will be paid for under the respective applicable bid items.

2.17: Installation of Sewer Cleanouts TYPE 1 (Items 68)

A. MEASUREMENT:

The measurement for installation of TYPE 1 sewer cleanout, will be on a per each basis of actual number installed, as ordered.

B. PAYMENT:

The actual number of sewer cleanouts installed will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, materials and incidental items necessary for the installation of sewer cleanouts complete in accordance with the Standard Drawings and specifications.

2.18: Installation of Riser from Sewer Mainline to Sewer Service Lateral (Item 69)

A. MEASUREMENT:

The measurement for installation of riser for sewer service laterals will be by the linear foot basis of riser installed, utilizing new material, unless noted different elsewhere.

B. PAYMENT:

The actual footage of riser for sewer service laterals installed will be paid at the unit price bid; over and above price for sewer line restoration, and this price and payment will constitute full compensation for furnishing all labor, equipment, materials and incidental items necessary for the installation of riser for sewer house connection complete in accordance with the Standard Drawings and specifications.

2.19: Smoke Testing (Item 70)

A. MEASUREMENT:

The measurement for smoke testing will be per linear feet of sewer- line smoke tested.

B. PAYMENT:

The actual length of sewer line from manhole to manhole will be paid at the unit price bid per linear feet and this price and payment will constitute full compensation for furnishing all labor, equipment, materials, and incidental items necessary for the smoke testing of the sewer line as directed by the Engineer.

2.20 Emergency Mobilization and Demobilization (Item 71)

A. MEASUREMENT:

The measurement for Emergency Mobilization and Demobilization will be on an incurred basis by the actual number of emergency mobilizations and demobilizations required (one per each emergency work order issued).

B. PAYMENT:

The emergency mobilization and demobilization of all necessary labor, equipment, materials and incidentals to an emergency work site as measured above will be paid at the unit price bid, and this price and payment will constitute full compensation for furnishing all labor, equipment, materials and incidental items necessary to secure the existing work site prior to mobilization to an emergency work site and demobilization

from the worksite. Payment will be made only for emergency mobilization and demobilization when directed by emergency work order by the Owner and/or Engineer.

2.21: Set-up By-Pass pumps (Items 72, 73, 74, and 75,) **and Operations of By-Pass pumps** (Items 76, 77, 78 and 79)

A. MEASUREMENT:

Separate measurement will be made for setup and operation of bypass pumps. These items are in addition to the minimum bypass pumping requirements of other bid items and will only be allowed upon approval of the Project Manager. Each setup will be measured separately with operation of the pumps being measured on the actual hourly time used.

B. PAYMENT:

Payment for setup of the bypass pumps will be at the unit price bid per each for each size required. The item will only be used for pumping beyond the minimum requirements of other bid items. Payment for operation of each size pump shall be at the hourly unit bid prices.

2.22: Utility Conflict Manhole up to 3 foot depth (Item 80)

A. MEASUREMENT:

The measurement for installation of utility conflict manhole will be on a per each basis of actual number installed.

B. PAYMENT:

The actual number of utility conflict manholes installed will be paid for at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, materials and incidental items necessary for the installation of utility conflict manholes complete in accordance with the Standard Drawings and specifications.

2.23: Additional Vertical Foot Height of Conflict Manhole above 3 foot depth (Item 81)

A. MEASUREMENT:

The measurement for additional vertical foot height of conflict manhole above 3 foot depth will be by the vertical foot of conflict manhole installed greater than 3 foot depth as required by Item No. 81.

B. PAYMENT:

The actual quantity of conflict manhole installed, as measured above, (greater than 3 foot depth) will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, materials, and incidental items necessary for the installation of utility conflict manhole complete in accordance with the Standard Drawings and specifications.

2.24: Utility Conflict Box up to 5 foot depth (Item 82)

A. MEASUREMENT:

The measurement for installation of utility conflict box will be on a per each basis of actual number installed.

B. PAYMENT:

The actual number of utility conflict boxes installed will be paid at the unit price bid and this price and payment will constitute full compensation for furnishing all labor, equipment, materials and incidental items necessary for the installation of utility conflict box complete in accordance with the specifications and as shown on the drawings.

2.25: Additional Vertical Foot Height of Conflict Box above 5 foot depth (Item 83)

A. MEASUREMENT:

The measurement for additional vertical foot height of conflict box above 5 foot depth will be by the vertical foot of conflict box installed greater than 5 foot depth as required by Item No. 83.

B. PAYMENT:

The actual quantity of conflict box installed, as measured above, (greater than 5 foot depth) will be paid for at the unit price bid and this price bid and payment will constitute full compensation for furnishing all labor, equipment, materials and incidental items necessary for the installation of utility conflict box complete in accordance with the Standard Drawings and specifications.

2.26: Furnish and Install Restrained Joint Force Main Pipe (Items Nos. 84 thru 93)

A. MEASUREMENT:

Force main pipe of PVC or ductile iron, in the various sizes required in these specifications when furnished and installed, excavated and backfilled, tested and accepted will be measured for payment by the Engineer. Measurement for length will be along the centerline of pipe. Such price shall include labor, materials and equipment to furnish a complete and accepted repair by the Owner. Also, removal of all abandoned pipe and all debris shall be included in the bid price.

B. PAYMENT:

Payment for furnishing and installing the various materials and sizes of force main pipe under this section will be made on a linear foot of pipe installed and accepted to provide for satisfactory repair. All lumber, bedding material, excavation, concrete blocking as required and testing shall be included in the price bid per linear foot for the required various force main diameters.

2.27: Inserting of "Tee" for service lateral in 8" and above mainline sewer (Item Nos. 94 and 95)

A. MEASUREMENT:

Measurement for payment for the insertion of a "Tee" in the mainline sewer will include all labor, materials, and equipment for its proper installation.

B. PAYMENT:

This item of work is intended to compensate the contractor for the replacement of a "Tee" when a sewer service lateral falls within the limits of a mainline sewer point repair. This item of work will include the replacement of up to ten (10) linear feet of the sewer services lateral and ten (10) linear feet of mainline. Payment will be made per each "Tee".

2.28: Class 5 Modified 40 Foot Long Treated Piling: (Item No. 96)

A. MEASUREMENT:

Measurement will be by per piling with a minimum installation of four (4) piling per set-up.

B. PAYMENT:

The actual number of Class 5 Modified 40 foot long treated piling will vary from site to site with a minimum of four (4) piling being installed per project. Piling will be used in the rehab of sewer lift station wet wells and dry pits. Top elevation of piling for a wet well will be between 21 feet and 24 feet below the top of the existing ground elevation. Dry pit top

of piling elevation will be between 8 feet and 12 feet from the existing ground elevation. This price and payment will constitute full compensation for furnishing all labor, equipment, materials, mob and demob, and incidental items necessary for the installation of the piling.

2.29: Wet Well and Dry Pit Concrete Foundations: (Item No. 97)

A. MEASUREMENT:

The measurement for installation of concrete wet well foundation will be paid by the cubic yard of concrete used to complete the wet well and/or dry pit foundation.

B. PAYMENT:

The actual quantity of concrete placed will be paid at the unit price bid per cubic yard, and this price and payment will constitute full compensation for furnishing all labor, equipment, forming materials, concrete, rebar, stone base (2 foot min.), and incidental items necessary for the installation of the concrete foundation for wet well and/or dry pit foundations. Foundation will consist of 4000 psi concrete, with three (3) mats of No. 6 rebars at 12 inches on center each way with No. 4 spacer bars at 18 inches in length and other related items complete in place as shown on Standard Drawings. (For a 8 foot diameter well or pit the foundation should be 10 foot 6 inches square by 2 foot thick.)

2.30: Fiberglass Wet Well and/or Dry Pit Installation: (Item Nos. 98 thru 105)

A. MEASUREMENT:

The measurement for installation of either or both a fiberglass wet well and/or dry pit will be paid by the vertical foot used to complete the installation of the well and/or pit.

B. PAYMENT:

The actual quantity of well or pit placed will be paid at the unit price per vertical foot, and this price and payment will constitute full compensation for furnishing all labor, equipment, fiberglass wet well and/or dry pit, sheeting (steel or other), rebar hold downs (anti-flotation), excavation, pumps (dewatering), and compacted back fill.

2.31: Wet Well and Dry Pit Concrete Top Cover with Hatch: (Item No. 106)

A. MEASUREMENT:

The measurement for installation of concrete top cover with steel hatches will be paid by the cubic yard of concrete used to complete the wet well and/or dry pit top cover.

B. PAYMENT:

The actual quantity of concrete placed will be paid at the unit price bid per cubic yard, and this price and payment will constitute full compensation for furnishing all labor, equipment, forming materials, concrete, rebar, steel hatches (one per wet well and one per dry pit – Rodney Hunt), and incidental items necessary for the installation of the concrete top cover for wet well and/or dry pit. Concrete top cover will consist of 4000 psi concrete, with No. 5 bars at 8 inches on center each way, top and bottom, steel hatch access opening traffic rated, and other related items complete in place as shown on Standard Drawings. (For a 8 foot diameter well/pit top, the cover should be 10 foot by 10 foot by 1 foot thick.)

2.32 Unforeseen Emergencies (Item Nos. 107 thru 136)

A. MEASUREMENT:

Measurement for unforeseen emergency work will be made on an as incurred basis for bid items 107 thru 136. The cost of materials used in the performance of emergency work, if not otherwise covered by existing bid items, or supplied by Jefferson Parish, will

be measured and paid for at the actual invoice cost, will be furnished by the contractor at the actual invoice cost billed to him without any marks-ups. These third party invoices shall be included in the contractor's billing invoice for payment. The cost of any incidental drayage between the local supplier and the job site will not be considered for pay.

B. PAYMENT:

Payment will be made only when directed by the Parish to make repair or repairs not specifically covered by items contained elsewhere in this proposal. Payment shall include furnishing all labor, equipment, and materials needed to accomplish the directed emergency work. Payment will be made in accordance with the hourly or daily rate bid for labor and equipment items 107 thru 135, in addition, to the standard bid items 1-106. The additional bid items 107 thru 136 are to be quoted for unforeseen emergencies. Equipment rated for bid (equipment only) for unforeseen emergency work cannot exceed the AED green book rates. As follow: Day Rate = AED weekly rate.

The hourly rate will be determined by dividing the daily rate by 8.

- C. The unit price bid** per day for "Small Tools", bid item no. 117, shall include the cost to supply, maintain, operate and any other item associated with the use of any and all miscellaneous hand tools or other tools not covered by other bid items.

Section 01060 REGULATORY REQUIREMENTS

Part 1 - General

1.01

The Contractor shall, without additional expense to the Owner, be responsible for obtaining any necessary licenses and permits, and/or complying with any applicable Federal, State and Municipal laws, codes and regulations, in connection with the prosecution of the work, as well as applicable fees, including any fees for locating underground utilities by either the utility company or any other service. All work performed under this contract shall be in accordance with the appropriate section of the LOUISIANA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES (2006 Edition and its latest revision), as well as all Jefferson Parish Sewerage Capital Program directives and guidelines.

The Contractor shall take proper safety and health precautions to protect the work, the workers, the Public and the Property of others. The Contractor will be responsible for all materials delivered, and the Owner will not provide any temporary storage facility or staging area for material or equipment. All coordination and permission to store equipment and/or material must be made by the Contractor.

Part 2 - Measurement and Payment

Compliance with regulatory requirements is considered incidental to the work, and no separate measurement and payment will be made.

Section 01152 REQUEST FOR PAYMENT

Part 1 - General

1.01: Requirements Included

Submit applications for payment to Engineer/ Assistant Director and Rehab Manager in accordance with the schedule established by Conditions of the Contract and Agreement between Owner and Contractor.

1.02: Format and Data Required

- A. Submit payment requests in the form required by Owner with itemized data typed on 8-1/2" x 11" white paper sheets.
- B. Provide itemized data on continuation sheet. In spreadsheet form indicate bid items as shown on bid form, quantity billed for currently, total quantity used to date, and current cost as well as cost to date.
- C. Provide summary of Bid Items by Work Order number.

1.03: Substantiating Data for Progress Payments

- A. When the Owner or the Engineer required substantiating data, Contractor shall submit suitable information, with a cover letter.
- B. Submit one copy of data and cover letter for each copy of application.

1.04: Preparation of Application for Retainage Payment

- A. Upon completion of the project a Final Acceptance Resolution will be brought before the Jefferson Parish Council.
- B. The Contractor will then file the Final Acceptance Resolution and apply for a Clear Lien and Privilege Certificate with the Clerk of Court. Upon receiving the Clear Lien and Privilege Certificate the Contractor can request payment of the retainage withheld during the course of the contract.
- C. Fill in application form as specified for progress payments.

1.05: Submittal Procedure

- A. Submit Applications for approval to the Engineer
- B. Number: Original and four (4) copies of each Application and attachments.
- C. When Engineer finds Application properly completed and correct, he will transmit certificate for payment to Owner, with copy of the transmittal letter to Contractor.

Section 01340 SHOP DRAWINGS, PRODUCT DATA & SAMPLES

Part 1 - General

1.01: Description of Requirements

- A. Type of Submittals. This Section of the Specifications describes the procedures for submittal requirements applicable to work-related Submittals, such as shop drawings, product data, samples and miscellaneous work-related Submittals. It does not include the requirements for administrative Submittals that are described in other section.
- B. Individual Section Requirements. The individual submittals required are specified in other Sections of the Specifications for each unit of work.
- C. Definitions. The work-related Submittals of this Section, in addition to the definitions of the General Conditions and elsewhere in the Contract Documents, are further categorized for convenience as follows:
 - 1. Shop drawings include specially prepared technical data of all forms including drawings, diagrams, performance curves, data sheets, schedules, templates, patterns, reports, calculation, instructions, measurement and similar information not in standard printed form for application to more than one project.
 - 2. Product data includes standard printed information on materials, products and systems, not specially prepared for this project, other than the designation of selections from among available choices printed therein.
 - 3. Samples include both fabricated and un-fabricated physical examples of materials, products and units of work, both as complete units and as smaller portions of units of work, either for limited visual inspection or (where indicated) for more detailed testing and analysis.
 - 4. Miscellaneous Submittal related directly to the work (non-administrative) include warranties, maintenance agreements, workmanship bonds, project photographs, survey data and reports, physical work records, statements of applicability, quality testing and certifying reports, copies of industry standards record drawings, field measurement data, operating and maintenance material, overrun stock, security, protection, safety keys and similar information, devices and materials applicable to the work and not processed as shop drawings, product data or samples. In addition to the above requirements, the Contractor shall submit in writing to the Engineer his proposed excavation plan prior to beginning any excavation operations.

1.02: General Submittal Requirements

- A. Scheduling. Where appropriate in various required administrative Submittals (listings of products, manufacturers, suppliers and subcontractors, and in job progress schedule), show principal work-related submittal requirements and time schedules for coordination and integration of submittal activity with related work in each instance.

- B. Coordination of Submittal Times. Prepare and transmit each submittal to the Engineer sufficiently in advance of performing related work or other applicable activities, so the installation will not be delayed or improperly sequenced by processing times, including non-approval and re-submittal (if required). Coordinate with other Submittals, testing, purchasing, delivery and similar sequenced activities. No extension of time will be authorized because of Contractor's failure to resubmit Submittals to the Engineer sufficiently in advance of the work.
- C. Sequencing Requirements. As applicable in each instance, do not proceed with a unit of work until submittal procedures have been sequenced with related units of work, in a manner which will ensure that the action will not need to be later notified or rescinded by reason of a subsequent submittal which should have been processed earlier or concurrently for coordination.
- D. Preparation of Submittals. Provide permanent marking on each submittal to identify project, date, Contractor, Subcontractor, submittal name and similar information to distinguish it from other Submittals. Show Contractor's executed review and approval marking and provide space for the engineer's "Action" marking. Package each submittal appropriately for transmittal and handling. Submittals which are received from sources other than through the Contractor's office will be returned "without action".
- E. Transmittal Form. The transmittal form used to transmit Submittals shall be as enclosed copy. Submittals received without this submittal form will be returned to the Contractor without action.
- F. Transmittal Identification.
 - 1. Number transmittals in sequence for each Division of the Specification. The number after the dash indicates the Section of the Specifications, and the number before the dash is the sequence number of the transmittal (1-3 would be the first transmittal applicable to Section 3 of the Specifications. 2-3 would be the second transmittal for Section 3, etc.)
 - 2. Identify re-submittals with a letter of the alphabet following the original number, using A for the first re-submittal, B for the second re-submittal, etc. A re-submittal affecting transmittal 1-3 would then be numbered 1A-3. The number 1-3 would then be entered in the space "Previous Transmittal Number", which is left blank except on re-submittals.

1.03: Specific Category Requirements

- A. General. Except as otherwise indicated in the individual work sections, comply with general requirement specified herein for each indicated category of submittal. Submittals shall contain the following:
 - 1. The date of submittal and the dates of any previous submittal.
 - 2. The Project title and number.
 - 3. Contract identification:
 - 4. The names of the:
 - a. Contractor
 - b. Supplier
 - c. Manufacturer
 - 5. Identification of the product, with the Specification Section number and equipment tag numbers.
 - 6. Field dimensions, clearly identified as such.
 - 7. Relation to adjacent or critical features of the work or materials

8. Applicable standards, such as ASTM or Federal Specification numbers
 9. Notification to the Engineer in writing, at time of submission, of any deviations in the Submittals from requirements of the Contract Documents.
 10. Identification of revisions on re-submittals.
 11. An 8 inch x 3 blank space for Contractor and Engineer stamps
 12. Contractor's stamp, initialed or signed, certifying to review of submittal, verification of products, field measurements and field construction criteria, and coordination of the information within the submittal with requirements of the work and of Contract Documents. Engineer's view will not proceed unless Contractor stamp is on drawings.
 13. Submittal sheets or drawings showing more than the particular item under consideration shall have all but the pertinent description of the item for which review is requested crossed out.
- B. Shop Drawings. Provide newly-prepared information, on reproducible sheets, with graphic information at accurate scale (except as otherwise indicated), with name of preparer (firm name) indicated. The Contract Drawings shall not be traced or reproduced by any method for use as or in lieu of detail shop drawings. Show dimensions and note which are based on field measurement. Identify materials and products in the work shown. Indicate compliance with standards and special coordination requirements. Do not allow shop drawing copies without appropriate final "Action" markings by the engineer to be used in connection with the work.
1. Submittal. Minimum of 9 prints are required. Each copy shall be stamped by the Contractor certifying review. Five (5) copies will be retained (2 for engineer, 3 for owner) and remainder will be returned marked with "Action": and any correction or modification (if any) as required.
 2. Record Document. Of the four (4) returned copies, one is to be marked-up and maintained by the Contractor as the "Record Document". The other three (3) will be for contractor's or vendors' use.
 3. If the contractor requires more than 3 copies returned for his (or vendors'), additional copies beyond the nine (9) shall be submitted.
- C. Product Data. Collect required data into one submittal for each unit of work or system, and mark each copy to show which choices and options are applicable to project. Include manufacturer's standard printed recommendations for application and use, compliance with standards, application of labels and seals, notation of field measurements, which have been checked, and special coordination requirements. Maintain one set of product data (for each submittal) at project site, available for reference by the Engineer or others.
1. Submittals. Do not submit product data, or allow its use on the project, until compliance with requirements of contract Documents has been confirmed by the contractor. Submittal is for information and record, unless otherwise indicated. Initial submittal is final submittal unless returned promptly by the Engineer, marked with an "Action" which indicates an observed non-compliance. Submit nine (9) copies, four (4) of which will be returned. One set shall be kept at job site.
 2. Installer's Copy. Do not proceed with installation of materials, products or systems until copy of applicable product data is in

possession of installer.

- D. Samples. Provide units identical with final condition of proposed materials or products for the work. Include "range" samples (not less than 3 units) where unavoidable variations must be expected, and describe or identify variations between units of each set. Provide full set of optional samples where the Engineer's selection is required. Prepare samples to match the Engineer's sample where so indicated. Include information with each sample to show generic description, source or product name and manufacturer, limitations, and compliance with standards. Samples are submitted for review and confirmation of color, pattern, texture and "kind" by the Engineer.. Engineer will not "test" samples (except as otherwise indicated) for other requirements, which are the exclusive responsibility of the Contractor.

1. Submittal. At Contractor's option, provide preliminary submittal of a single set of samples for the engineer's review and "Action". Otherwise, initial submittal is final submittal unless returned with "Action" which requires re-submittal. Submit six (6) sets of samples in final submittal; one set will be returned.
2. Quality Control Set. Maintain returned final set of samples at project site, in suitable condition and available for quality control comparisons by Engineer and by others.

1.04: Distribution

- A. General Distribution. Provide additional distribution of submittals (not included in foregoing copy submittal requirements) to subcontractors, suppliers, fabricators, installers, governing authorities and others as necessary for proper performance of the work. Include such additional copies in transmittal to the engineer where required to received "Action" marking before final distribution. Show such distributions on transmittal forms.
- B. Review Time. Allow a minimum of fifteen (15) calendar days following receipt of Submittals for the Engineer's initial processing of each submittal requiring review and response, except allow longer periods where processing must be delayed for coordination with subsequent submittals. The Engineer will advise the contractor promptly when it is determined that a submittal being processed must be delayed for coordination. Allow two weeks for re-processing each submittal. Advise the Engineer on each submittal as to whether processing time is critical to progress of the work, and therefore the work would be expected if processing time could be foreshortened.
- C. Engineer's Action.
1. Final Unrestricted Release. Work may proceed, preceded it complies with contract documents, when submittal is returned with the following:

Marking: "A" - No Exceptions Taken.
 2. Final-But-Restricted Release. Work may proceed, provided it complies with notations and corrections on submittal and with contract documents, when submittal is returned with the following:

Marking: "B" - Revised as Noted.
 3. Returned for Re-submittal. Do not proceed with work. Revise submittal in accordance with notations thereon, and resubmit without delay to obtain

a different action marking. Do not allow submittals with the following marking (or unmarked submittals where a marking is required) to be used in connection with performance of the work:

Marking: "C" - Amend and Resubmit.
"D" - Rejected - See Remarks.

Section 01380 CONSTRUCTION PHOTOGRAPHS

Part 1 - General

Contractor shall be responsible for the production of construction photographs as provided herein.

Part 2 - Products

All photographs shall be digital and produced by a competent photographer. Digital photos shall be submitted in the "jpg format" with the description of view and date taken, and work order number and address. Compact Disk shall be turned in with each payment of the work performed during that pay period.

Part 3 - Execution

Minimum of four (4) digital photographs (two pre-construction, two-post construction) of pertinent features shall be taken at each repair location. The same view taken at pre-construction is to be re-photographed after restoration is completed, and submitted with Contractor's application for payment. Payment will not be approved for restoration work if photographs are not submitted with the pay request. The Contractor is reminded that the number of photographs is a "minimum", and dependent on site conditions, it may be prudent to take as many photographs as necessary to document pre-existing conditions. The Contractor is required to photograph the pre-existing conditions from the most advantageous angle possible. The intent of this section is to have detailed photographs from as many different angles as required to adequately document the pre-existing conditions.

Part 4 - Payment

Payment for pre and post construction photographs is considered incidental to conducting a point repair and will not be considered for separate payment.

Section 01410 TESTING LABORATORY SERVICES

Part 1 - General

1.01: Requirements Included

- A. Owner will employ and pay for the services of an Independent Testing Laboratory to perform specified testing upon recommendation of the Engineer. This shall include re-testing for confirmation of compliance of re-worked areas; however, the Owner shall deduct the cost of all retests from compensation due to the Contractor.
- B. Contractor shall cooperate with the laboratory to facilitate the execution of its required services.
- C. Employment of the laboratory shall in no way relieve Contractor's obligations to perform the Work of the Contract.

1.02: Laboratory Duties

- A. Cooperate with Engineer and Contractor; provide qualified personnel after due notice.
- B. Perform specified inspections, sampling and testing of materials and methods of construction:
 - 1. Comply with specified standards.
 - 2. Ascertain compliance of materials with requirements of Contract Documents.
- C. Promptly notify Engineer and Contractor of observed irregularities or deficiencies of work or products.
- D. Promptly submit five (5) copies of written report of each test and inspection to Engineer.

Each report shall include:

- 1. Date issued.
- 2. Project title and number.
- 3. Testing laboratory name, address and telephone number.
- 4. Name and signature of laboratory inspector.
- 5. Date and time of sampling or inspection.
- 6. Record of temperature and weather conditions.
- 7. Date of test.
- 8. Identification of product and specification section.
- 9. Location of sample or test in the Project.
- 10. Type of inspection or test.
- 11. Results of test and compliance with Contract Documents.
- 12. Interpretation of tests as results, when requested by Engineer.

E. Limitations of Authority of Testing Laboratory

Laboratory is not authorized to:

- 1. Release, revoke, alter or enlarge on requirements of Contract Documents.
- 2. Approve or accept any portion of the Work.
- 3. Perform any duties of the Contractor.

1.03: Contractor's Responsibilities

- A. Cooperate with laboratory personnel, provide access to Work, and to manufacturer's operations.
- B. Secure and deliver to the laboratory, when requested by Engineer, adequate quantities of representational samples of materials proposed to be used and which require testing.
- C. Provide to the laboratory the preliminary design mix proposed to be used for concrete, and other material list mixes, which require control by the testing laboratory.
- D. Furnish copies of products test reports as required.
- E. Furnish incidental labor and facilities:
 - 1. To provide access to Work to be tested.
 - 2. To obtain and handle samples at the Project site or at the source of the product to be tested.
 - 3. To facilitate inspections and tests.
 - 4. For storage and curing of test samples.
- F. Notify laboratory sufficiently in advance of operations to allow for laboratory assignment of personnel and scheduling of tests.
 - 1. When test or inspections cannot be performed after such notice, reimburse Owner for laboratory personnel and travel expenses incurred due to Contractor's negligence.
 - 2. Contractor will be responsible for all re-testing as a result of test failure.
- G. Make arrangements with laboratory and pay for additional samples and test required for Contractor's convenience.

Section 01579 TRAFFIC REGULATIONS

Part 1 - General

1.01: Requirements

- A. The Contractor shall be responsible for the safe and expeditious movement of traffic through construction zones. A construction zone is defined as the immediate area of actual construction, which interferes with the driving or walking public.

- B. Traffic Control

The necessary precautions shall include, but not be limited to, such items as proper construction warning signs, signals, lighting devices, markings, barricades, channelization, and hand signaling devices (flagging operation). See standard plans included in this set of specifications. The Contractor shall be responsible for installation and maintenance of all devices and requirements for the duration of the construction period.

All work shall be performed in accordance with LDOTD standard specification, 2006 or its latest revision. In addition to items shown on the plans, traffic control devices shall be in accordance with the MUTCD.

The Contractor shall be responsible for removal, relocation, or replacement of any traffic control device in the construction area which exists as part of the normal pre-construction traffic control scheme. Any such actions shall be performed by the Contractor under the supervision, and in accordance with the Specifications, for the Department of Engineering, Traffic Engineering Division, unless otherwise specified.

The Contractor will consult with Project Engineer and the Jefferson Parish Traffic Engineering Division immediately on any vehicular or pedestrian safety or efficiency problem incurred as a result of construction of the project.

The Contractor is responsible for daily monitoring of traffic control devices and must make appropriate changes to correspond to conditions.

Section 01630
PRODUCT OPTIONS AND SUBSTITUTIONS

Part 1 - General

In accordance with Louisiana Public Contract Statute (LSA R.S. 38:2211-2296), these Contract Documents include provisions for use of equivalent materials and equipment. Requests for review of equivalency shall be submitted in accordance with the General Conditions and the submittals section.

Other manufacturer's products will be accepted provided sufficient information is submitted to allow Engineer to determine that the products proposed are equivalent to those named. Such items shall be submitted for review by the procedures set forth in the submittals section.

Whenever the names of proprietary products or the names of particular manufacturer's or vendors are used, it shall be understood that the words "or equal" following the enumeration, if not specifically stated, are implied.

**Section 01740
WARRANTIES AND BONDS**

Part 1 - General

- 1.01 Contractor shall indemnify the Owner against any repairs which may become necessary to any part of the work performed under this Contract, arising from defective workmanship or materials used therein, for a period of one (1) year from the date of completion of the repair. Warranty for sewer manhole and wet well rehabilitation will be as stated in the respective Technical Specification section.
- 1.02 The Contractor shall, at his own expense, furnish all labor, materials, tools and equipment required and shall make such repairs and removal or shall perform such work or reconstruction as may be made necessary by structural or functional defect or failure resulting from neglect, faulty workmanship or faulty materials, in any part of the Work performed by him.
- 1.03 The Contractor shall be responsible for all road, sidewalk and driveway reconstruction and repairs and maintenance of same for a period of one year from date of such reconstruction. In the event the repairs and maintenance are not made immediately and it becomes necessary for the Owner of the road to make such repairs, the Contractor shall reimburse the Owner of the road for the cost of such repairs.
- 1.04 In the event the Contractor fails to proceed to remedy the defects of which he has been notified within 15 days of the date of such notice, the Owner reserves the right to cause the required materials to be produced and the work to be done, as described in the Drawings and Specifications, and to hold the Contractor and the sureties on his bond liable for the cost and expense thereof.
- 1.05 All warranties, bond, insurance, etc. shall provide for 30 day advance notice to the Owner prior to cancellation or renewal date. No payment will be made to the Contractor for any work without insurance and bonds being in effect.

SECTION 02146 BY-PASS PUMPING

Part 1 - General

1.01: Scope of Work

This section shall include furnishing all equipment, labor and materials necessary to setup, operate and maintain by-pass pumping. The Engineer will determine the quantities and disposition of water to be pumped and the Contractor shall provide the necessary equipment to meet these minimum requirements. Bypass pumping for 4 inch pumps or less will be considered incidental to the work and will have no separate payment.

1.02: Plugging or Blocking

It shall be the responsibility of the Contractor to provide and install the required plug and locking in the line. This plug shall be inserted into the line at a manhole immediately upstream from the section of line being repaired or inspected. The plug shall be so designed that any portion of sewer flow can be released through the line. After all work has been completed, the plug and all blocking shall be removed from the manhole.

1.03: Pumping and By-Passing

When pumping/by-passing is required, the Contractor shall supply the necessary pumps, conduits, and other equipment to divert the flow of wastewater around the work site. By-passed sewerage shall be diverted to the system below the work site and not into the storm drainage system. The by-pass system shall be of sufficient capacity to handle existing flows plus additional flow that may occur during periods of rain.

The Contractor must take every precaution to ensure that the plugging and by-passing of sewer flow does not cause flooding or damage to public or private property being served by the sewers involved.

1.04: Measurement and Payment

Payment for by-pass pumping shall be made under the applicable unit price bid item.

SECTION 02160 SHEETING, SHORING AND BRACING

Part 1 - General

1.01: Description

This section shall include supplying materials, services, and labor necessary to provide sheeting, shoring, and bracing or supports as required to provide a safe working condition for Contractor's personnel and to provide for protection of utilities, buildings, and structures. It shall be the sole responsibility of the Contractor to comply with these requirements.

1.02: Submittals

Prior to beginning sheeting and shoring operations, and as a part of the excavation plan, the Contractor shall submit in writing to the Engineer his proposed plan to comply with the requirements of this Section. No excavation work shall be allowed to commence until the Contractor has fulfilled this requirement.

1.03: Safety Requirements

All sheeting, shoring and bracing of excavations shall conform to requirements necessary to comply with OSHA regulations, local codes and other authorities having jurisdiction.

Part 2 - Execution

2.01: Performance

- A. The planning and installation of all sheeting, shoring, bracing and sheet piling shall be accomplished in such a manner as to maintain the required trench or excavated cross section and to maintain the undisturbed state of the soils adjacent to the trench and below the excavated bottom. All trenches and structural excavations shall be properly sheeted, shored and braced. Steel sheet piling shall be a continuous interlock design.
- B. The use of horizontal strutting below the barrel of a pipe or structure or the use of a pipe as support for trench bracing will not be permitted.
- C. Wood sheeting shall be left in place and the upper part of the sheeting shall be cut off three (3) feet below the finished ground surface after backfilling. All bracing above this level shall also be removed. Lower bracing shall be left in-place.
- D. Steel sheeting, when used, may be removed upon completion of backfill operations.

2.02: Measurement and Payment

- E. Sheeting, shoring and bracing used to install sewer mains shall not be measured separately for direct payment but shall be included in the applicable contract unit or lump sum prices for the item of work to which the work is associated.

SECTION 02200 EARTH EXCAVATION AND BACKFILL IN TRENCHES

Part 1 - General

1.01: Scope of Work

- A. This Section includes, except as elsewhere provided, trenching for installation of pipelines and appurtenances, including drainage, filling, backfilling, disposal of surplus material and restoration of trench surfaces.
- B. Excavation shall extend to the width and depth shown on the Standard Drawings or as specified; or where not specified, Contractor shall confine his excavation to the least width practicable and shall provide suitable room for installing pipe, structures, and appurtenances.
- C. The Contractor shall furnish and place all sheeting, bracing, and supports and shall remove from the site all materials which are unsuitable for backfill or which the Engineer may deem unsuitable for backfilling. The bottom of the excavation shall be firm, dry and in all respects, acceptable.

In case the excavation for any pipeline is carried below the required depth, the Contractor shall fill the bottom of the excavation up to grade with limestone, in a manner acceptable to the Engineer, without compensation for either the excavation or the backfilling.

Part 2 - Products

2.01: River Sand

River sand shall be used as backfill material for all trenches and shall be a good quality "Mississippi River Sand", free of roots, shells, or any other foreign matter, AASHTO Classification A-4 material or better.

2.02: Bedding Materials

Bedding material shall be crushed limestone (Grade 67), crushed concrete, or sand and clamshell mix. Bedding material shall be installed and compacted as listed below. All foundation lumber (i.e., planking, sills, and stringers in the trench bottom) shall be suitable for the purpose. Installation of foundation lumber and piling shall be in accordance with Jefferson Parish Engineering Standards.

- 1. Crushed limestone (Grade 67) shall be in accordance with the requirements of ASTM C33-84- standard Specification for Concrete Aggregates. Crushed limestone shall be installed and compacted in the same manner as described for clamshells.
- 2. Crushed concrete shall be well-graded materials with not more than ten percent (10%) (by weight) passing the No. 200 sieve and not more that five percent (5%) (by weight) of foreign material. Crushed concrete shall be thoroughly compacted in layers not exceeding six inches (6") in thickness by mechanical means such as a steel drum roller, vibratory plate or other approved device to a density not less than ninety-five percent (95%) of the maximum density determined by ASTM D-698.

Part 3 - Execution

3.01: Excavation

- A. Excavation shall be open cuts with vertical sides, unless in special cases the Engineer permits sloping sides.
- B. In case the excavation for any pipeline is carried below the required depth, the Contractor shall fill the bottom of the excavation up to grade with reef shell or limestone, in a manner acceptable to the Engineer, without compensation for either the excavation or the backfilling.
- C. All material excavated shall be placed so as to minimize interference with public travel and to permit proper access for inspection of the work.
- D. Material excavated as well stockpiled backfill material, shall not be left in street overnight.

3.02: Disposal of Materials

- A. Excavated material shall be stacked, without excessive surcharge, on the trench bank and without obstructing free access to hydrants and valves. Inconvenience to traffic and abuts (i.e., homes, driveways, etc.) shall be avoided as much as possible.
- B. All excavated material shall be disposed of by the Contractor.
- C. Should conditions make it impracticable or unsafe to stack material adjacent to the trench, the materials shall be hauled and stored at a location provided by the Contractor. When required, it shall be re-handled and used in backfilling the trench.

3.03: Excavation to Remove Stumps, Roots, Logs

- A. Stumps, roots, and logs, which are encountered within the trench area, shall be cut to a depth of one foot (1') below the bottom of the trench. The Contractor shall fill this excavated space with clam shell or other approved materials at no direct pay.
- B. When so required by the Engineer, the Contractor shall probe one foot (1') below the established bottom of the trench. If any stump, roots, logs, etc., are discovered by this probing, the Contractor shall cut them out just as if they had been visible in the trench.
- C. Blasting will not be allowed for the removal of stumps

3.04: Sheet piling and Bracing

- A. Protection of the excavation against caving or settling of the banks shall be the sole responsibility of the Contractor. He shall protect the sides of his excavation by sheet piling and bracing as may be necessary. No actions or instructions by the Engineer shall be regarded as the responsibility for security of the trench or the surrounding areas. The full responsibility remains with the Contractor. The Contractor shall furnish, put in place, and maintain sheet piling and bracing required to support the side of the excavation and prevent loss of ground, which could damage or delay the work or endanger adjacent structures or vehicular traffic. If the Engineer is of the opinion that at any point sufficient or proper supports have not been provided, he may order additional supports placed at the expense of the Contractor. Compliance with such order shall not relieve the Contractor from his responsibility for the sufficiency of such supports. Care shall be

taken to prevent voids outside of the sheeting, but if voids are formed, they shall be immediately filled and rammed.

B. Sheeting shall be used for certain trench conditions as shown on the Drawings.

1. The Contractor shall leave in place to be embedded in the backfill of the trench, all wood sheeting, bracing, and other related items as shown on the Drawings, or which the Engineer may direct him in writing to leave in place at any time during the progress of the work. The Engineer may direct that time used for sheeting and bracing in the trench be cut off specified elevation, after backfilling and tamping has reached this level. All rangers and braces above this level must be removed.
2. All sheeting and bracing not left in place shall be carefully removed in such manner as not to endanger the construction of other structures, utilities, or property, whether public or private.
3. The right of the Engineer to order sheeting and bracing left in place shall not be construed as creating any obligation on his part to issue such orders, and his failure to exercise his right to do so shall not relieve the Contractor from liability for damages to persons or property occurring from or upon the work occasioned by negligence or otherwise, growing out of a failure on the part of the Contractor to leave in place in the trench sufficient sheeting and bracing to prevent any caving or moving of the ground adjacent to the sides of the trench.
4. The contractor shall receive no payment for any extra time used for sheeting, bracing, and other related items, which has not been ordered by the Engineer in writing during the progress of the work. The Contractor shall receive no payment for such time, which was used for the convenience of the Contractor.
5. If additional sheeting and bracing is required by the Engineer, measurement and payment shall be as specified in the Measurement and Payment section.

3.05: Test Pits

Test pits for the purpose of locating underground utilities or structures in advance of the construction may be excavated by the Contractor. Test pits shall be backfilled immediately after the desired information has been obtained. The backfilled surface shall be restored and maintained in a manner satisfactory to the Engineer. The cost of test pits shall be at no direct pay and included in the appropriate bid item.

3.06: Drainage

- A. The Contractor shall furnish all materials and equipment and perform all incidental work required to install and maintain the drainage system he proposed for handling ground water or surface water encountered. He shall assume all responsibility for the adequacy of the methods, materials, and equipment employed. Construction shall not begin until the Engineer is assured that the proposed method will be satisfactory. The requirements for a stable sub-grade are indicated above and the Contractor must alter his drainage methods, if in the opinion of the Engineer, the trench bottom is unsatisfactory.
- B. The Contractor shall provide pumping equipment and devices to properly remove and dispose of all water entering trenches and excavations. The grade shall be maintained acceptably dry until the structures to be build therein are completed. All drainage shall be performed without damage to the trench, pavements, pipes, electrical conduits, or other utilities.

- C. Pipe and masonry shall not be laid in water or submerged within 24 hours after inking placed. Water shall not flow over new masonry within four days after placement.
- D. In no event shall water rise to cause unbalanced pressure on structures until the concrete or mortar has set at least 24 hours. The Contractor shall prevent flotation of the pipe by promptly placing backfill.
- E. Where other methods of handling water prove inadequate, the Contractor shall furnish, install, operate, and remove proper well point facilities.

3.07: Backfilling

- A. As soon as practical after the pipe had been laid, jointed, and tested (if required), backfilling shall begin and thereafter be prosecuted expeditiously. Bedding shall conform to the details on the Standard Drawings. When laying pipe, the groove for the pipe and bell hole must be accurately shaped and the backfill must be closely packed under and around the pipe.
- B. After the required bedding has been placed as shown on the Standard Drawings, backfill material free from stones, pieces of lumber, and other foreign material shall be hand placed and hand tamped to a depth over the top of the pipe as shown on the Drawings.
- C. Wherever, a grassed surface exists prior to excavation, it shall be removed, conserved, and replaced to the full original depth as part of the work under the pipe items. In some areas, it may be necessary to remove excess materials during the clean-up process, so that the ground may be restored to its original level and condition.
- D. Where the pipe are laid in streets, the remainder of that trench above the bedding and up to the bottom of the specified shall be backfilled as shown on the Standard Drawings in layers not to exceed two feet (2'), and thoroughly compacted by flooding.
- E. The pipe and bedding material for all mainlines or feederlines shall be completely encapsulated with a geo-textile fabric (Mirafi - 500 or approved equal) in all locations (under pavement/sidewalk or grass cover).
- F. Backfill around manholes shall be compacted by flooding. All backfill shall be compacted, especially under and over pipes connected to the manholes.
- G. Paving shall not be placed in backfill.
- H. All road surfaces adjacent to backfilling operations shall be broomed and hose-cleaned immediately after backfilling. Dust control measures shall be employed at all times.

SECTION 02600 REPLACEMENT PIPE AND FITTINGS

Part 1 - General

1.01: Scope of Work

The Contractor shall furnish all labor, materials, equipment and incidentals required to complete a "Point Repair" using materials as described herein and being compatible to the removed materials. All force main repairs, PVC or Ductile, shall have restrained joints as specified herein.

1.02: Submittals

- A. The Contractor shall submit to the Engineer, within ten days after signing the contract, a list of materials to be furnished and the names of his suppliers.
- B. If materials, indicated in these specifications, are not commonly stocked, the Contractor shall state the approximate time required to obtain these materials.
- C. The Contractor shall submit and shall comply with pipe manufacturer's recommendations for handling, storing, and installing pipe and fittings.
- D. The Contractor shall submit pipe manufacturer's certification of compliance with these specifications.

Part 2 - Product

2.01: Materials

2.01.1: Polyvinyl Chloride (PVC) Pipe used for Gravity Sewer

- A. Polyvinyl Chloride (PVC) gravity sewer pipe and fittings, 4" through 16" diameter, shall conform to ASTM D-3034, "Type PSM Polyvinyl Chloride (PVC) Sewer Pipe and Fittings", SDR-26
- B. Polyvinyl chloride (PVC) gravity sewer pipe and fittings, 18" through 27" diameter, shall conform to ASTM F-679, "Polyvinyl Chloride (PVC) Large-Diameter Plastic Gravity Sewer Pipe and Fittings", T-2 wall thickness.
- C. All gravity sewer lines with more than ten feet (10') of cover and any pipe under roadways with less than four feet (4') of cover shall conform to the specifications "Polyvinyl Chloride (PVC) Pipe C-900".
- D. The supplier shall be responsible for the performance of all inspection and testing requirements specified in ASTM D-3034 or ASTM F-679, as applicable. Complete records of inspections, examinations and tests shall be kept and submitted to the Engineer. The Engineer reserves the right to perform any of the inspections set forth in the specifications where such inspections are deemed necessary to assure that materials and services conform to the prescribed requirements.
- E. The pipe shall be jointed with an integral bell and spigot type rubber gasketed joints. Each integral bell joint shall consist of a formed bell with a rubber gasket. Gaskets shall conform to ASTM F-477. Joints shall permit contraction, expansion and

settlement, and yet maintain a watertight connection.

- F. Pipe shall be furnished in standard laying lengths not exceeding 20 feet.
- G. All fittings and accessories shall be furnished by the pipe supplier and shall have bell and/or spigot configurations compatible with the pipe.

2.01.2: Polyvinyl Chloride (PVC) Pipe - C 900 for Force Mains

- A. Polyvinyl chloride (PVC) main pipe and fittings shall conform to AWWA C 900, "Polyvinyl Chloride (PVC) Pressure Pipe, 4" through 12", for Water", DR18.
- B. The pipe shall be jointed with gasketed, integral bell and spigot-type joints. Gaskets shall conform to F-477.
- C. Pipe shall be furnished in standard laying lengths not exceeding 21 feet.
- D. For pipes 14 inches in diameter and larger, pipe shall meet requirements of Uni-Bell PVC Pipe Association Specifications UNI-B-11, DR-18, if available.
- E. Restrained joints shall be provided at locations shown on the drawings or as indicated in the field. Restrained joints shall be as specified. Suitable PVC/ductile iron adapters shall be provided.
- F. Polyvinyl Chloride (PVC) pipe may be restrained using the Series 1300 or 1350 Large Diameter Restrainers as manufactured by Nappco, Inc. or the Series 1100 PV or 1100 HV MEGALUG mechanical joint thrust restraint as manufactured by EBAA Iron, Inc.
- G. The Nappco Series 1300 or 1350 restrainers shall be furnished with a minimum sixteen (16) mil fusion bonded epoxy coating in accordance with ANSI/AWWA C213 and installed using silicon bronze bolts - IFI 140 Grade 655.
- H. The EBAA Iron Series 1100 PV or 1100 HV MEGALUG assembly, including bolts, shall be cast completely of closely controlled ductile iron conforming to ASTM A536 (latest revision); silicon bronze bolts IFI 140 Grade 655 shall be furnished.
- I. Both types of restraining glands shall be wrapped with an eight (8) mil thick polyethylene tube for additional protection. The polyethylene wrap shall extend a minimum of two feet (2') in either direction from the gland and secured on the end with circumferential turns of tape.
- J. All restrained joints shall be inspected at the job site after installation. Field touch-up and repair, if needed, shall be made by the Contractor under the supervision and inspection of a representative of the coating supplier.

2.01.3: Ductile Iron Pipe and Fittings

- A. All ductile iron pipe shall be ductile iron manufactured in accordance with the requirements of the latest revision of AWWA C150 and C151 and shall conform to ANSI Specification A21.51 and thickness design to A21.50-76. Pipe supplied shall be Class 51 for pipe eight inches (8") and smaller, Class 52 for pipe ten inches (10") and larger, and shall meet all requirements for push-on rubber gasketed joints in accordance with AWWA C111.
- B. Unrestrained joint pipe shall be supplied in lengths not in excess of 21 feet. Pipe shall

be either the rubber-ring type push-on joint or standard mechanical joint pipe as manufactured by the American Cast Iron Pipe Company, U.S. Pipe and Foundry Company, Clow Corporation or approved equal.

- C. Fittings shall meet the requirements of ANSI/AWWA C110. Rubber gaskets shall conform to ANSI A21.11 mechanical and push-on type joints.
- D. All ductile iron pipe and fittings less than twelve inches (12") in diameter and larger shall have cement mortar lining and bituminous seal coat on the inside in accordance with AWWA C104, and coat tar enamel coat on the outside in accordance with ANSI A21.4.

All ductile iron pipe and fittings twelve inches (12") in diameter and larger shall have a polyethylene lining on the inside and a coal tar enamel coating on the outside. Polyethylene shall comply with ASTM D1248, compounded with carbon black to provide resistance to ultra violet rays during ground storage. The polyethylene shall be 40 mils thick and shall be bonded to the interior of the pipe and fittings by a heat process. The coal tar enamel outside coating shall be in accordance with ANSI A21.4.

- E. Restrained joints shall be provided at locations shown on the drawings. Restrained joint pipe and fittings for twelve inches (12") and smaller diameter pipe shall be "Mechanical Joint with Retainer Gland" as manufactured by American Cast Iron Pipe Company, "Lok-Tyton" as manufactured by U.S. Pipe Company, "Super-Lock" as manufactured by Clow Corporation, or equal. Restraining joint pipe and fittings for fourteen inches (14") and larger diameter pipe shall be "Lok-Tyte" as manufactured by U.S. Pipe Company, "Super-Lock" as manufactured by Clow Corporation, or equal. Where bolts are required, they shall be of silicon bronze.

2.02: Identification

Each length of pipe and each fitting shall be marked with the name of manufacturer, size and class. All gaskets shall be marked with the name of manufacturer, size, and proper insertion direction.

2.03: Manhole Connections

Pipe stubs for all manhole connections shall not exceed two feet (2') in length. Caps shall be furnished where required.

Part 3 - Execution

3.01: Laying Polyvinyl Chloride (PVC) Pipe and Fittings

- A. Polyvinyl Chloride (PVC) pipe shall be laid in accordance with the instructions of the manufacturer, as shown on the drawings and as specified herein. As soon as the excavation is completed to normal grade, as indicated on the drawings, the Contractor shall immediately place bedding in the trench. Then the pipe shall be firmly bedded to conform accurately to the line and grade indicated on the drawings. Embedment of pipe shall conform to the details shown on the drawings and ASTM D2321, "Recommended Practice for Underground Installation of Flexible Thermoplastic Sewer Pipe". Bell holes shall be excavated so that after installation, only the pipe barrel shall bear upon the trench bottom. Proper selection and placement of bedding and backfill materials are necessary to minimize deflection of the pipe diameter. No blocking under the pipe will be permitted, except as allowed in these specifications.
- B. The Contractor shall use care in handling and installing pipe and fittings. Storage of

pipe on the job site shall be done in accordance with the pipe manufacturer's recommendation and with approval of the Engineer. Under no circumstances shall pipe or fittings be dropped either into the trench or during unloading. The interior of the pipe shall be kept clean of oil, dirt and foreign matter, and the machined ends and couplings shall be wiped clean immediately prior to jointing.

- C. The Contractor shall use a PVC pipe cutter where necessary to cut and machine all PVC pipe in the field. A "full insertion mark" shall be provided on each field-cut pipe end. Field-cut pipe shall be beveled with a beveling tool made especially for plastic pipe. Bevels shall be in accordance with the manufacturer's requirements.
- D. Each length of pipe and each fitting shall be marked with the nominal size, the SDR designation, the name of the manufacturer or his trademark, and the date of manufacture.
- E. Rubber gaskets shall be marked with manufacturer's identification sizes and proper insertion direction.
- F. The interior of the pipe and the jointing seal shall be free from sand, dirt, and trash before installing in the line. Extreme care must be taken to keep the bells of the pipe free from dirt and rocks so joints may be properly assembled without over stressing the bells. The jointing of the pipe shall be done in strict accordance with the pipe manufacturer's instructions and shall be done entirely in the trench.
- G. Each time the work is halted for more than one (1) hour, the ends of the pipe shall be closed to prevent foreign material from entering the pipe.
- H. In all cases where this type of pipe is installed, a metallic tape shall be affixed to the type of the pipe. The tape shall be Type A-1 Alertine Detectable Marking Tape or approved equal.

3.02: Laying Ductile Iron Pipe and Fittings

- A. All buried piping shall be installed in accordance with recommendations of the pipe manufacturer and as specified herein.
- B. Care shall be taken in handling, storage, and installation of pipe and fittings to prevent injury to the pipe or coating. All pipe and fittings shall be examined before lying, and no pipe shall be installed which is found to be defective. All damage to the pipe coatings shall be repaired according to the manufacturer's recommendations.
- C. Rubber gasket shall be marked with manufacturer's identification sizes and proper insertion direction.
- D. The interior of the pipe and the jointing seal shall be free from sand, dirt, and trash before installing in the line. Extreme care must be taken to keep the bells of the pipe free from dirt and rocks so joints may be properly assembled without over stressing the bells. The jointing of the pipe shall be done in strict accordance with the pipe manufacturer's instructions and shall be done entirely in the trench.
- E. Each time the work on the sewer is halted more than one (1) hour, the ends of the pipe shall be closed to prevent foreign material from entering the pipe.

3.03: Marker Tape

Marker tape is to be installed on all lines. The color is to be yellow with "CAUTION -- SEWER LINE BURIED BELOW" written on it. The tape is to be two inches (2") wide and located between the bedding and the backfill along the centerline of pipe.

3.04: Pipe Couplings

Repairs made to similar pipe shall be accomplished with the use of similar repair couplings or spool pieces. Repairs made to dissimilar gravity sewer line pipe (i.e., PVC to clay, transite or other) shall be accomplished with the use of flexible elastomeric P.V.C. pipe couplings or adapters as manufactured by Fernco, or approved equal. All pipe couplings shall attach to the existing and replacement pipes by means of stainless steel bands with screw and housing to assure a positive seal around the pipe. All flexible couplings shall be installed with a stainless steel shear ring. Should stainless shear rings not be furnished with flexible couplings, furnished couplings must be approved by engineer prior to installation.

3.05: Measurement and Payment

Measurement for installation of PVC or Ductile Iron restrained joint force main shall be along the center line of pipe. Payment for furnishing and installing of PVC or ductile iron restrained joint shall be made on a linear foot basis for the various diameters as shown in the bid schedule. Payment shall include the furnishing of all pipe, labor, equipment, fittings, bedding, blocking, sheeting lumber, excavation, testing required to furnish a complete and acceptable repair.

Section 02601 UNDERGROUND FIBERGLASS REINFORCED WET WELL AND DRY PIT

Part 1 – General:

1.01 The product listed under this section shall include all labor, materials and equipment and incidental items necessary to furnish a FRP Wet Well and/or Dry Pit. Unless otherwise indicated the terminology used in this specification shall be in accordance with the definitions in the American Society for Testing and Materials (ASTM) designation D883 – Standard Terminology Related to Plastics Wet Wells shall be one piece units manufacture to meet or exceed all specifications of ASTM D3753.

1.02 Governing Standards, as applicable:

ASTM D883: Standard Terminology Related to Plastics:

ASTM D3753: Standard Specification for Glass-Fiber-Reinforced Polyester Manholes and Wet Wells.

1.03 Loading Conditions:

Wet Well and/or Dry Pit FRP wall laminate must be designed to withstand wall collapse or buckling based on the following assumed physical parameters. The Wet Well and/or Dry Pit shall be designed and constructed to withstand or exceed wall collapse and buckling based upon three (3) times the assumed loading conditions listed below:

- a. Unit weight of water is 62.4 lbs. per cubic foot.
- b. Saturated soil unit weight of 120 lbs. per cubic foot.
- c. Modulus of soil reaction of 700 lbs. per square foot.

Wet Well and/or Dry Pit, when installed according to Wet Well manufacturers current Wet Well Installation Instruction and Operating Guidelines, shall support accessory equipment – such as submersible pumps, rails, valves, and ladders.

1.04 Materials:

Wet Well and Dry Pit shall be manufactured with 100% premium resin and glass-fiber reinforcement. No sand fillers.

Wet Well and Dry Pit shall be tested by the manufacturer to a Barcol Hardness of at least 80% of the resin manufacturer's specific hardness for fully cured resin.

The following pertinent average material properties shall be used in analysis for fiberglass composite in the Wet Well or Dry Pit:

- | | |
|-------------------------|-------------|
| a. Tensile Modulus | 900,000 psi |
| b. Flexural Modulus | 900,000 psi |
| c. Tensile Strength | 10,000 psi |
| d. Compressive Strength | 20,000 psi |
| e. Poisson's Ratio | 0.33 |

All 6 foot diameter and larger Wet Wells and Dry Pits shall be constructed using an

integral constructed trapezoidal rib for superior strength and support of the well and/or pit wall.

1.05 Calculations:

The manufacturer shall provide, if requested by the owner, or engineer, anti-flotation calculations for the designed Wet Well and/or Dry Pit based on specifics of ground water depth and soil properties for the specific site location as supplied by the engineer.

1.06 Warranty:

Shall be manufacturer's limited warranty for Underground Wet Well at time of shipment.

SECTION 02605 SEWER MANHOLE AND CONFLICT BOXES

Part 1 - General

1.01: Requirements:

Contractor will rebuild or construct manholes and conflict boxes when ordered, as shown on the Standard Details. Contractor is required to plug all influent lines and by-pass pump (under the conditions of the by-pass pumping section) as necessary to allow for construction, rebuilding or re-pointing of sewer manholes.

Part 2 - Products

- 2.01 Masonry cement shall conform to ASTM C150, Type II
- 2.02 Sewer Brick shall conform to AASHTO M 91, Manhole Brick, Grade MM
- 2.03 Fiberglass Reinforced plastic manholes shall conform to ASTM D3753

Part 3 - Execution

- 3.01 All manhole and conflict boxes shall be constructed as indicated on the Standard Details. All ground water shall be kept away from the newly grouted pipe and bricks until cement has properly set, and until a watertight job is obtained. Manholes and conflict boxes, which admit groundwater after completion, will not be accepted. Bricks must be laid in full, close, shove joints of mortar following the best work standards.
- 3.02 Bedding material for manholes and conflict boxes shall be crushed limestone and compacted in lifts not exceeding 2 inches using a drum roller or plate vibrating compactor. A minimum of two passes over the entire bedding area is required for compaction of the bedding material. The bedding shall be underlain by a geotextile fabric such as Mirafi 500 or approved equal.
- 3.03 Excavated area around manholes and conflict boxes shall be backfilled with select native material or river sand, unless located in paved areas and then only river sand will be accepted, compacted to 97% of maximum dry density in accordance with ASTM D-1557.
- 3.04 Repointing:

Repointing of existing sewer manholes or wet wells will include the required proper surface preparation by cleaning with high pressure water spray (minimum 2500 psi) and to include muriatic acid cleaning if required to remove oil or grease, and the removal of all loose or deteriorated mortar in the joints, and then regrouting these joints with a one component, ready to use with water, high strength polymer modified cementitious mortar. Approved mortar materials are: Octocrete, IPA Systems, Inc. Philadelphia, PA, Preco-Patch and Preco-Plug, Preco Industries, Plainview, N.Y.
- 3.05 Adjusting manholes:

When required, existing manhole castings shall be adjusted to an elevation established by the Engineer. This adjustment may be either an increase or decrease in the

existing casting elevation and will not exceed one foot in either direction. The Contractor shall make these adjustments by either adding or removing brick courses as required or as approved by the Engineer.

Part 4 - Payment

- 4.01 Construction of new manholes and conflict boxes will be paid at the unit price bid per vertical linear foot measured from the invert of the deepest line to the top of casting.
- 4.02 Rebuilding of existing manholes or conflict boxes will be paid at the unit price bid per vertical foot measured from the level of the starting course of bricks to be rebuilt to the top of casting.
- 4.03 Re-pointing of existing manholes and wet wells will be paid at the unit price bid per square foot of surface area re-pointed.
- 4.04 Adjustment of manholes shall be paid at the unit price bid per each basis. As a means of measurement an "Adjustment" will be considered as being no more than 1 foot (1') in either direction from the original casting elevation.

SECTION 02900 LANDSCAPING

Part 1 - General

After all work has been completed and the areas outside the roadway surface fine-graded, all sodded areas disturbed during construction shall be filled to the proper grade with topsoil, sodded, fertilized and watered.

Part 2 - Products

2.01: Materials

- A. A minimum of three inches (3") of topsoil shall be placed on all areas disturbed during construction. Native soil (free of debris, roots, or trash) stockpiled during construction may be used. If additional soil is required, it shall be fertile surface soil capable of supporting the growth of grass and plants.
- B. Fertilizer shall be a slow-release type meeting the following minimum chemical composition: 8% nitrogen, 8% phosphorus, 8% potassium. It shall be supplied in granulated or pelletized form and shall be uniformly broadcast over the prepared surface at the rate of 2.5 pounds per 100 square feet.

Part 3 - Execution

3.01: Sod Replacement

- A. The Contractor shall make every attempt to disturb only the existing grass surface necessary to complete the repair, and will be compensated only for replacement of the areas as shown on the detail sheet. All grass areas disturbed shall be replaced with new sod of the same grass variety that existed prior to construction, and shall be laid continuously over the entire repair area matching the grade existing prior to construction. Any grass area unduly disturbed or damaged by Contractor's operation beyond the area shown on the detail sheet shall be replaced at no expense to the owner.
- B. Upon placing sod and fertilizing, the Contractor is required to provide onetime watering of the sodded area.

Part 4 - Payment

Payment for sod replacement will be made under the item "Slab Sodding" and the payment amount will be measured as shown on the detail sheet. The unit price bid for "slab sodding" shall include all labor, materials, fertilizer, top soil, water, and equipment necessary to complete this item of work as specified above.

**SECTION 03000
REMOVAL AND RESTORATION OF ROADWAYS,
CONCRETE CURB AND GUTTER, SIDEWALK AND DRIVEWAYS**

PART 1 - General

1.01: Description

All work performed under this Section shall be in accordance with the appropriate section of the LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (2006 Edition or its latest revisions), unless modified herein or directed in the field, will apply regarding work performed under this Section. American Disability Act (ADA) requirements as well as all other Federal, State or local code requirements will apply.

This Section shall include the removal and restoration of all paved and unpaved roadway and walkway areas encountered on the project. This work will include replacement of pavements, shell surfaces, base courses, curbs, gutters and other improvements removed or damaged by the Contractor during the course of his Contract.

The unit price bid for a removal and replacement item shall include the cost of removal, saw cutting as required, transportation and proper disposal of the removed material, placement AND REMOVAL of temporary walking/parking surface in sidewalk and driveway areas (temporary asphalt) as well as actual permanent replacement cost.

Under no circumstances will removed concrete or asphalt material be allowed to be stockpiled at the site. All debris will be removed from the site at the end of the work day. The Contractor is not allowed to stockpile any new roadway bedding material in roadways overnight.

Temporary asphalt surfacing will be used in roadway/parking locations as directed by the Engineer. This asphalt will be placed upon completion of work with permanent repair being made in approximately 30 days. Payment for placement of temporary asphalt will be made under the applicable bid item.

Unless otherwise approved by the Engineer, the kind of pavement to be constructed in replacement work shall correspond with the kind removed from the area or as shown on the detail sheet. The respective kind of concrete (asphalt or portland cement) shall be placed, shaped, and finished to establish grade and cross section by practicable means which will result in a dense, uniform-textured pavement. Abutting edges of old pavement shall be trimmed of all loose fragments and shall be painted with asphalt or thoroughly moistened with water, as appropriate, to provide good bond between the old and new pavement.

All manholes within the pavement area shall be isolated (boxed out) by means of an approved circular ring (joint) around them, square or rectangular sections using flexible joint materials. Manholes in sidewalk areas will be formed so that an expansion joint is on both sides of the manhole.

All backfilled trenches shall be properly maintained by the Contractor, at no direct pay, until such time as reconstruction is begun.

NOTICE: The Contractor is responsible for notifying both the Engineer,

testing lab representative and Jefferson Parish Department of Sewerage at least 24-hours in advance, of placement of concrete or asphalt.

In addition, the Contractor shall be responsible for the proper and safe protection of the work area.

Part 2 - Materials/Execution

2.01: Removal of Surfacing

All surfaces shall be initially removed to a distance of one foot (1') outside the limits of the trench. Upon completion of all work, all concrete removed and replaced to the nearest joint unless otherwise directed by the Engineer or Owner. Final removal of asphaltic concrete roadways shall be to a minimum distance of three feet (3') from the edge of trench and saw cut at this point. For driveway and sidewalk removal, if a joint does not exist at the property line or in close proximity to it, then the Contractor shall make a saw-cut along this property line. There will be no direct payment for saw-cutting. Material removed shall be properly disposed of at no direct pay. There will be no direct payment for the removal of curb, which is attached to and removed with the roadway surface.

2.02: Base Course

This work consists of furnishing and placing granular material for the roadway base as per plan details, and in accordance with Section 501 and 1002 of the LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (2006 Edition or its latest revisions) unless otherwise specified.

The placement of the road base material shall be confined to the limits of the trench line. If, due to the construction operation, the adjacent base material is disturbed adversely, the Contractor shall remove and replace the materials as directed by the Engineer in consultation with the Department of Public Works. This work shall be done at the Contractor's cost unless the disturbance is beyond the Contractor's control.

Density tests will be taken on the roadway as materials as directed in the plans. The Contractor shall not be allowed to restore the roadway until road base materials in the trench area meets or exceeds the following:

Density requirements (Standard Proctor)	
(a) Base Course (sand)	-97%
(b) Base Course (shell or sand/shell)	-97%
(c) Base Course (stone)	-95%
(d) Sub base (sand)	-97%

2.03: Base Materials

Soil for base material shall be a pumped sand obtained from the Mississippi River. It shall be an AASHTO Classification A-4 or better, having a Plasticity Index not to exceed "4", and a liquid limit not to exceed "25", and shall be free from trash, weeds, large lumps, humus, or any other deleterious matter.

2.04: Asphalt Concrete Paving

A. Permanent Resurfacing

All materials and construction under this section shall conform to Section 501 of the LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (2006 Edition and its latest revisions) unless otherwise specified. The gradation of the mix shall be Type 3, AC-30 for any temporary repairs as well as the permanent Wearing Course and Binder Course as specified in Table 1 of the referenced section. The thickness of each course is as shown on the standard details.

Saw-cutting will be required along the entire limits of the removed asphalt areas; if in contact with existing asphalt.

Job Mix Formula (per latest DOTD Standards)

- | | | |
|-----|----------------|------------------|
| (a) | Wearing Course | (Type 3, AC-30) |
| (b) | Binder Course | (Type 3, AC-30) |
| (c) | Base Course | (Type 5A, AC-30) |

B. Temporary Resurfacing

Until permanent roadway pavement surfacing is placed, temporary asphalt resurfacing, a minimum of 2 inches thick shall be placed and maintained at locations determined by the Owner's Representative. At major intersections and critical locations, a greater thickness may be ordered. Temporary resurfacing shall be placed as soon as the condition of the backfill is suitable to receive it, and shall remain in place until the condition of the backfill is suitable for permanent resurfacing.

The temporary asphaltic concrete shall be any type mixture listed in Section 501, except Type 5B, of the LOUISIANA STANDARDS SPECIFICATIONS FOR ROADS AND BRIDGES (2006 edition or its latest revision).

Prior to placing temporary resurfacing, the Contractor shall level and compact the backfill on which the surfacing is to be placed. The grade of the backfill on which the resurfacing is to be placed shall be such as to provide the full thickness of temporary resurfacing specified. The temporary resurfacing shall be placed, rolled, maintained, and removed and disposed of by the Contractor.

2.05: Concrete Pavement

All materials and construction under this section shall conform to Section 601 of the LOUISIANA STANDARDS SPECIFICATIONS FOR ROADS AND BRIDGES (2006 Edition or its latest revisions) unless otherwise specified, and Jefferson Parish Engineering Department's standards.

All existing concrete pavement, curbs, walks, and driveways shall be replaced to the line, grade and thickness as existed prior to construction or as directed by the Engineer. All roadway joints shall be replaced to match the conditions which existed prior to construction or as directed by the Engineer. All replaced sidewalk and drive slabs shall be doweled into the existing adjacent concrete. Details of existing joints will be supplied at the time of construction. Prior to construction in an area, adequately reference the existing curb and other pavement elevations to establish the pre-construction conditions.

The restored paving elevations shall correspond to the elevations established prior to construction in the area, or as modified by the Engineer, to allow for drainage of the

area.

Curbs and sidewalks shall be removed to the nearest joint scorings. Concrete street panels will be removed from joint to joint, unless otherwise directed by the Engineer or Owner. Should a field condition require saw cutting the existing pavement, there will be no direct payment for saw cutting and all expenses should be included in the applicable bid item for removal and replacement of paving.

Portland Cement Concrete Requirements for roadway pavement and curbs:

- (a) Seven (7) sacks of cement per cubic yard
- (b) 2" to 4" slump range
- (c) The use of Fly Ash in the mix will not be permissible.

The pavement shall not be opened to traffic until a compressive strength of 4,000 psi is attained, and in no case shall the pavement be opened to traffic within a three (3) day period after the concrete has been placed.

The final roadway surface finish shall be a "Drag Finish" as defined in the LOUISIANA STANDARDS SPECIFICATIONS FOR ROADS AND BRIDGES (2006 Edition or its latest revisions) or as otherwise directed by the Department of Public Works.

2.06: Curbs, Gutters, and Miscellaneous

Replacement of curbs, gutters, walks, dikes, and other like structures shall consist of similar and matching construction to that of adjoining undisturbed structures, which construction shall be at least equal in all respects to that of the structures or parts of structures removed in the work and as shown on the standard details.

2.07: Testing Requirements

All material and construction testing will be done as directed by the Engineer or as follows:

Asphalt Roadways:

- (a) One base thickness verification per 600 square yards or fraction thereof.
- (b) One density test on the sub-base (if applicable) and base material per 600 square yards or fraction thereof.
- (c) One pavement core for the thickness verification per 600 square

Concrete Roadways:

- (a) One slump test minimum per 100 cubic yards (accumulated volume) of concrete or fraction thereof.
- (b) Four (4) cylinders minimum per 100 cubic yards (accumulated volume) of concrete or fraction thereof.
- (c) Independent densities, slumps, cylinders, cores, etc., will be required for isolated areas.

All initial testing shall be performed by the Parish's testing laboratory and at the Parish's expense. All costs for testing to determine compliance after the initial tests shall be borne by the Contractor and deducted from payments due the Contractor. The total deductions for testing costs to be paid for by the Contractor will be included in the reconciliation of final quantities. Contractor is also responsible for all costs for canceled or rescheduled tests.

There shall be no adjustment in bid prices for pavement thickness deficiencies. If the concrete core is less than specified, two additional cores on the same slab within a five-foot (5') radius must be taken. If one of these cores is less than specified, then the entire panel (joint to joint) must be removed and additional cores on other adjacent panels within the core range (600 square yards) must be taken and the same procedure followed.

Joint Sealers: All joints in roadway surface shall be cleaned and sealed with approved joint sealant.

2.08: Use of Wire Mesh

Wire mesh or rebar shall be used in the replacement of sidewalks, driveways and roadways if it existed in the removed sections. The size and type used shall, at a minimum, equal or better than that removed. There shall be no additional payment for the use of wire mesh or dowels into existing roadway (as per Jefferson Parish Engineering Standards).

2.09: Cleaning for Acceptance of Street

Prior to acceptance, the Contractor shall be required to clean up any street as a result of construction activity, as directed by the Project Engineer/Owner's Representative.

SECTION 04000.1 BRICKWORK

Part 1 - General

1.01: Scope of Work

- A) The Contractor shall furnish all labor, materials, equipment and incidentals necessary to complete all brickwork as shown on the Drawings and/or specified herein, including, but not limited to, brick manhole repair, in manholes and adjusting grade for manhole frames and covers and any miscellaneous uses as directed by the Engineer.
- B) The Contractor will only be allowed to use brick manholes when constructing a "dog house" type manhole or when otherwise directed by the Engineer.

Part 2 - Products

2.01: Materials

- A) Cement shall be domestic Portland cement conforming to ASTM Designation C-150, Type II.
- B) Lime for mortar shall be hydrated, conforming to ASTM Designation C-207, Type S.
- C) Sand shall be clean, sharp, durable particles, preferable siliceous, and with not more than five percent (5%) in volume of loam, mica, clay, or other deleterious substance, and free from injurious amounts of organic matter. The sand shall be graded from fine to coarse so that, when tested dry, it will conform to the limits of ASTM Specification for Aggregate for Masonry Mortar C-144. Sand for grout shall be such size that when dry, one-hundred percent (100%) shall pass a No. 200 sieve, and not over five percent (5%) by weight shall be retained on a No. 100 sieve.
- D) Water shall be free from injurious amounts of oils, acids, alkalis or organic matter, and shall be clean and fresh.
- E) Brick shall be sound, hard and uniformly burned, regular, of standard sewer brick size, and uniform in shape and size, of compact texture and satisfactory to the Engineer. Bricks shall comply with the AASHTO M 91, Manhole Brick, Grade MM.

Part 3 - Execution

3.01: Installation

- A) Mortar shall consist of 1 part cement, 3 parts sand and hydrated lime not to exceed ten percent (10%) of the weight of cement used, and shall be mixed only in such quantity as may be required for immediate use and shall be used before the initial set has taken place. Mortar shall not be retained for more than 1-1/2 hours and shall be constantly worked over with hoe or shovel until used. Prepared mortar shall not be allowed to stand in beds during the noon hour or overnight. It must be mixed in the exact proportions specified herein and approximate measurement of quantities will not be permitted.
- B) Antifreeze mixtures will not be allowed in the mortar.

- C) Bricks shall be cleaned and thoroughly wet shortly before they are put into the work, and each brick shall be laid in a full bed and joint of mortar without requiring subsequent grouting, flushing or filling. Joints between bricks shall not exceed 1/2 inch and shall be pointed. Bricks forming the shaped inverts in manholes shall be laid on edge as shown on the details.

3.02: Testing

Brick manholes shall be visually inspected by the Engineer and all leaks discovered by the inspection shall be repaired by the Contractor at no additional cost to the Owner.

SECTION 13000 SMOKE TESTING

Part 1 - General

Smoke testing will be accomplished upon the completion of all point repairs to determine if the repair is acceptable. Smoke testing may also be ordered on a limited basis to identify defects on certain sewer line segments.

Part 2 - Products

The smoke shall be blown by a specially designed gasoline powered blower. Blower pressure must be adequate (not less than 4000 cfm) to force smoke throughout the isolated line segment and to the ground surface through cracks, channels, loose adaptor connections, etc.

Standard non-toxic smoke bombs that will produce smoke for a minimum of 5 minutes shall be used.

Part 3 - Execution

The Contractor will be required to isolate sewer line segments by plugging inlet lines at manholes, in order to conduct a proper smoke test. Only one line segment on each side of the blower shall be tested on a set up. Observations of leaks at the manhole and along the sewer line will be recorded on a field inspection report form, which will be supplied to the contractor by the Owner at the start of the Contract. (Sample at end of section)

Notification to residents:

The Contractor will be responsible to distribute a printed notification letter, approved by the Department of Sewerage, and indicate the nature of the work being conducted and the smoke testing procedures. This notice is to be distributed at least 24 hours prior to testing, but no earlier than 72 hours prior to testing, and is to be distributed to each household or commercial establishment located in the area to be smoke tested.

The Contractor will be required to notify both the Owner's representative and the local Fire Department at least 1 hour prior to smoke testing. The Owner's representative must be present to witness any smoke testing conducted in order to verify an acceptable point repair.

Part 4 - Payment

The cost for smoke testing in order to verify an acceptable point repair is considered incidental to a point repair and will not be considered for separate payment. Should the smoke test reveal an unacceptable point repair, the Contractor will be required to correct the repair deficiency and re-smoke test the repair.

The cost for smoke testing when ordered to verify defects on line segments will be paid by the linear foot of line segment at the applicable unit price bid for smoke testing.

SECTION 13010 SEWER CLEAN-OUTS

Part 1 – General

1.01: Requirement

The Contractor when ordered will be required to install service lateral clean-outs. A sewer clean-out installation shall consist of all pipe, fittings, adopters, castings and or cover boxes. Sewer clean-outs shall be Type 1 installation as shown on the Standard Details. The type to be installed will be indicated on the work order.

Part 2 - Products

2.01: Approved pipe and fittings, (see Pipe Specification Section 02600)

2.02: Clean-out Frame & Cover: Vulcan V-8504 or approved equal.

Part 3 - Execution

Sewer clean-outs are to be installed as indicated on the Standard Detail sheet. Sewer clean-out piping is to be installed from the depth of the service lateral to the existing grade line, so that the sewer clean-out plug fitting and cover are flush with the grade line.

Part 4 - Payment

Payment for installation of a Type 1 sewer clean-out will be made under the applicable unit price bid item.